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(54) Title: COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS AS CATHEPSIN S INHIBITORS

### COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS AS CATHEPSIN S INHIBITORS

#### THE INVENTION

This Application relates to compounds and compositions for treating diseases associated with cysteine protease activity, particularly diseases associated with activity of cathepsin S.

## DESCRIPTION OF THE FIELD

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Cysteine proteases represent a class of peptidases characterized by the presence of a cysteine residue in the catalytic site of the enzyme. Cysteine proteases are associated with the normal degradation and processing of proteins. The aberrant activity of cysteine proteases, e.g., as a result of increase expression or enhanced activation, however, may have pathological consequences. In this regard, certain cysteine proteases are associated with a number of disease states, including arthritis, muscular dystrophy, inflammation, tumor invasion, glomerulonephritis, malaria, periodontal disease, metachromatic leukodystrophy and others. An increase in cathepsin S activity contributes to the pathology and/or symptomatology of a number of diseases. Accordingly, molecules that inhibit the activity of cathepsin S protease are useful as therapeutic agents in the treatment of such diseases.

# SUMMARY OF THE INVENTION

This Application relates to compounds of Formula I:

$$\begin{array}{c} X^2R^3 \\ X^1 \xrightarrow{S(O)_2} \\ R^4 \xrightarrow{N} & H \\ O & R^2 \\ \end{array}$$

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in which:

 $X^1$  and  $X^2$  are both methylene or  $X^1$  is ethylene and  $X^2$  is a bond;

 $R^1$  is hydrogen and  $R^2$  is cyano, hetero( $C_5$ )aryl or ( $C_{1-4}$ )alkyl-substituted hetero( $C_5$ )aryl or both  $R^1$  and  $R^2$  are hydrogen, halo, ( $C_{1-4}$ )alkyl or  $-X^3OR^9$ , wherein  $X^3$  and  $R^9$  are as defined below, or  $R^1$  and  $R^2$  together with the carbon atom to which both  $R^1$  and  $R^2$  are attached form ( $C_{3-8}$ )cycloalkylene or ( $C_{3-8}$ )heterocycloalkylene;

 $R^3$  is  $-CR^5$ =CHR<sup>6</sup> or  $-CR^7$ =NR<sup>8</sup>, wherein R<sup>5</sup> and R<sup>6</sup> together with the atoms to which R<sup>5</sup> and R<sup>6</sup> are attached form (C<sub>2-6</sub>)alkenyl, (C<sub>5-12</sub>)cycloalkenyl, hetero(C<sub>5-12</sub>)cycloalkenyl, (C<sub>6-12</sub>)aryl, hetero(C<sub>6-12</sub>)aryl, (C<sub>9-12</sub>)bicycloaryl or hetero(C<sub>8-12</sub>)bicycloaryl and R<sup>7</sup> and R<sup>8</sup> together with the atoms to which R<sup>7</sup> and R<sup>8</sup> are attached form hetero(C<sub>5-12</sub>)cycloalkenyl, hetero(C<sub>6-12</sub>)aryl or hetero(C<sub>8-12</sub>)bicycloaryl, wherein R<sup>3</sup> optionally is substituted by 1 to 5 radicals independently selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo, halo-substituted (C<sub>1-4</sub>)alkyl, nitro,  $-X^3NR^9R^9$ ,  $-X^3OR^9$ ,  $-X^3SR^9$ ,  $-X^3C(O)NR^9R^9$ ,  $-X^3C(O)OR^9$ ,  $-X^3S(O)R^{10}$ ,

 $-X^3S(O)_2R^{10}$  and  $-X^3C(O)R^{10}$ , wherein  $X^3$  is a bond or  $(C_{1-2})$ alkylene,  $R^9$  at each occurrence independently is hydrogen,  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl and  $R^{10}$  is  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl; and

 $R^4$  is  $-C(O)X^4R^{11}$  or  $-S(O)_2X^4R^{11}$ , wherein  $X^4$  is a bond, -O- or  $-NR^{12}$ -, wherein  $R^{12}$  is hydrogen or  $(C_{1-6})$ alkyl, and  $R^{11}$  is (i)  $(C_{1-6})$ alkyl optionally substituted by  $-OR^{13}$ ,  $-SR^{13}$ ,  $-S(O)R^{13}$ ,  $-S(O)_2R^{13}$ ,  $-C(O)R^{13}$ ,  $-C(O)OR^{13}$ ,  $-C(O)NR^{13}R^{14}$ ,  $-NR^{13}R^{14}$ ,  $-NR^{14}C(O)R^{13}$ ,  $-NR^{14}C(O)OR^{13}$ ,  $-NR^{14}C(O)NR^{13}R^{14}$  or  $-NR^{14}C(NR^{14})NR^{13}R^{14}$ , wherein  $R^{13}$  is  $(C_{3-12})$ cycloalkyl $(C_{0-3})$ alkyl,

$$\label{eq:condition} \begin{split} &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ (C_{6\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl},\ \text{hetero}(C_{5\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl},\ \\ &(C_{9\text{-}12})\text{bicycloaryl}(C_{0\text{-}3})\text{alkyl}\ \text{or}\ \text{hetero}(C_{8\text{-}12})\text{bicycloaryl}(C_{0\text{-}3})\text{alkyl}\ \text{and}\ R^{14}\ \text{at}\ \text{each}\ \\ &\text{occurrence}\ \text{independently}\ \text{is}\ \text{hydrogen}\ \text{or}\ (C_{1\text{-}6})\text{alkyl},\ \text{or}\ (\text{ii})\ (C_{3\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ (C_{6\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl},\ \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ (C_{6\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl},\ \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ (C_{6\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl},\ \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ \\ \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ \\ \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl},\ \\ \\ &\text{hetero}(C_{5\text{-}12})\text{cy$$

- $$\begin{split} & \qquad \qquad (C_{9\text{-}12}) bicycloaryl(C_{0\text{-}3}) alkyl \ or \ hetero(C_{8\text{-}12}) bicycloaryl(C_{0\text{-}3}) alkyl \ or \ (iii) \\ & \qquad \qquad (C_{3\text{-}6}) cycloalkyl(C_{0\text{-}3}) alkyl, \ hetero(C_{5\text{-}6}) cycloalkyl(C_{0\text{-}3}) alkyl, \ phenyl(C_{0\text{-}3}) alkyl \ or \\ & \qquad \qquad hetero(C_{5\text{-}6}) aryl(C_{0\text{-}3}) alkyl \ substituted \ by \ -X^5 OR^{15}, \ -X^5 SR^{15}, \ -X^5 S(O)R^{15}, \\ & \qquad -X^5 S(O)_2 R^{15}, \ -X^5 C(O)R^{15}, \ -X^5 C(O)OR^{15}, \ -X^5 C(O)NR^{15}R^{16}, \ -X^5 NR^{15}R^{16}, \\ & \qquad -X^5 NR^{16}C(O)R^{15}, \ -X^5 NR^{16}C(O)OR^{15}, \ -X^5 NR^{16}C(O)NR^{15}R^{16} \ or \\ \end{split}$$
- $-X^5NR^{16}C(NR^{16})NR^{15}R^{16}, \ wherein \ X^5 \ is \ a \ bond \ or \ methylene, \ R^{15} \ is$   $(C_{3-6})cycloalkyl(C_{0-3})alkyl, \ hetero(C_{5-6})cycloalkyl(C_{0-3})alkyl, \ phenyl(C_{0-3})alkyl \ or$   $hetero(C_{5-6})aryl(C_{0-3})alkyl \ and \ R^{16} \ is \ hydrogen \ or \ (C_{1-6})alkyl; \ wherein \ R^4 \ optionally$   $further \ contains \ 1 \ to \ 5 \ substituents \ which \ when \ occurring \ within \ an \ alicyclic \ or$   $aromatic \ ring \ system \ are \ radicals \ independently \ selected \ from \ a \ group \ consisting \ of$
- $(C_{1-6}) alkyl, \ (C_{1-6}) alkylidene, \ cyano, \ halo, \ nitro, \ halo-substituted \ (C_{1-3}) alkyl, \\ -X^5NR^{17}R^{17}, \ -X^5NR^{17}C(O)OR^{17}, \ -X^5NR^{17}C(O)NR^{17}R^{17}, \ -X^5NR^{17}C(NR^{17})NR^{17}R^{17}, \\ -X^5OR^{17}, \ -X^5SR^{17}, \ -X^5C(O)OR^{17}, \ -X^5C(O)NR^{17}R^{17}, \ -X^5S(O)_2NR^{17}R^{17}, \\ -X^5P(O)(OR^8)OR^{17}, \ -X^5OP(O)(OR^8)OR^{17}, \ -X^5NR^{17}C(O)R^{18}, \ -X^5S(O)_2R^{18} \ and \ -X^5C(O)R^{18} \ and \ when occurring within an aliphatic moiety are$
- radicals independently selected from a group consisting of cyano, halo, nitro,  $-NR^{17}R^{17}$ ,  $-NR^{17}C(O)OR^{17}$ ,  $-NR^{17}C(O)NR^{17}R^{17}$ ,  $-NR^{17}C(NR^{17})NR^{17}R^{17}$ ,  $-OR^{17}$ ,  $-SR^{17}$ ,  $-C(O)OR^{17}$ ,  $-C(O)NR^{17}R^{17}$ ,  $-S(O)_2NR^{17}R^{17}$ ,  $-P(O)(OR^{17})OR^{17}$ ,  $-OP(O)(OR^{17})OR^{17}$ ,  $-NR^{17}C(O)R^{18}$ ,  $-S(O)_2R^{18}$  and  $-C(O)R^{18}$ , wherein  $X^5$  is a bond or  $(C_{1-6})$ alkylene,  $R^{17}$  at each occurrence independently is hydrogen,  $(C_{1-6})$ alkyl or
- halo-substituted (C<sub>1-3</sub>)alkyl and R<sup>18</sup> is (C<sub>1-6</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates (e.g. hydrates) of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

A second aspect of the invention is a pharmaceutical composition which

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contains a compound of Formula I or a *N*-oxide derivative, individual isomer or mixture of isomers thereof, or a pharmaceutically acceptable salt thereof, in admixture with one or more suitable excipients.

A third aspect of the invention is a method for treating a disease in an animal in which inhibition of cathepsin S can prevent, inhibit or ameliorate the pathology and/or symptomatology of the disease, which method comprises administering to the animal a therapeutically effective amount of compound of Formula I or a *N*-oxide derivative, individual isomer or mixture of isomers thereof; or a pharmaceutically acceptable salt thereof.

A fourth aspect of the invention is the processes for preparing compounds of Formula I and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts thereof.

#### DETAILED DESCRIPTION OF THE INVENTION

# Definitions:

Unless otherwise stated, the following terms used in the specification and claims are defined for the purposes of this Application and have the following meanings.

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"Alicyclic" means a moiety characterized by arrangement of the carbon atoms in closed non-aromatic ring structures having properties resembling those of aliphatics and may be saturated or partially unsaturated with two or more double or triple bonds.

"Aliphatic" means a moiety characterized by a straight or branched chain arrangement of the constituent carbon atoms and may be saturated or partially unsaturated with two or more double or triple bonds.

"Alkyl" represented by itself means a straight or branched, saturated or unsaturated, aliphatic radical having the number of carbon atoms indicated (e.g., (C<sub>1-6</sub>)alkyl includes methyl, ethyl, propyl, isopropyl, butyl, *sec*-butyl, isobutyl, *tert*-butyl, vinyl, allyl, 1-propenyl, isopropenyl, 1-butenyl, 2-butenyl, 3-butenyl, 2-methylallyl, ethynyl, 1-propynyl, 2-propynyl, and the like). Alkyl represented along

with another radical (e.g., as in arylalkyl) means a straight or branched, saturated or unsaturated aliphatic divalent radical having the number of atoms indicated or when no atoms are indicated means a bond (e.g.,  $(C_{6-12})$ aryl $(C_{0-3})$ alkyl includes phenyl, benzyl, phenethyl, 1-phenylethyl 3-phenylpropyl, and the like).

"Alkylene", unless indicated otherwise, means a straight or branched, saturated or unsaturated, aliphatic, divalent radical having the number of carbon atoms indicated (e.g., (C<sub>1-6</sub>)alkylene includes methylene (-CH<sub>2</sub>-), ethylene (-CH<sub>2</sub>CH<sub>2</sub>-), trimethylene (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-), tetramethylene (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-) 2-butenylene (-CH<sub>2</sub>CH=CHCH<sub>2</sub>-), 2-methyltetramethylene (-CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>2</sub>-), pentamethylene (-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-) and the like).

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"Alkenyl" means alkyl, as defined in this Application, provided that the radical is comprised of at least one double bond. Hence, optionally substituted (C<sub>2-6</sub>)alkenyl as used in this Application to define R<sup>3</sup> includes 2-bromovinyl (-CH=CHBr), buta-1,3-dienyl (-CH=CH-CH=CH<sub>2</sub>), 2-chloro-1-methylpropenyl (-C(CH<sub>3</sub>)=CCl-CH<sub>3</sub>), 2-chlorovinyl (-CH=CHCl), 4-isopropenyl (-C(CH<sub>3</sub>)=CH<sub>2</sub>), 1-methylpropenyl (-C(CH<sub>3</sub>)=CH-CH<sub>3</sub>), 2-methylpropenyl (-CH=C(CH<sub>3</sub>)<sub>2</sub>), 2-nitrovinyl (-CH=CHNO<sub>2</sub>), propenyl (-CH=CH-CH<sub>3</sub>), 2-trifluoromethylvinyl (-CH=CH-CF<sub>3</sub>), trifluorovinyl (-CF=CF<sub>2</sub>), vinyl (-CH=CH<sub>2</sub>), and the like).

"Alkylidene" means a straight or branched saturated or unsaturated, aliphatic, divalent radical having the number of carbon atoms indicated (e.g. (C<sub>1-6</sub>)alkylidene includes methylene (=CH<sub>2</sub>), ethylidene (=CHCH<sub>3</sub>), isopropylidene (=C(CH<sub>3</sub>)<sub>2</sub>), propylidene (=CHCH<sub>2</sub>CH<sub>3</sub>), allylidene (=CH-CH=CH<sub>2</sub>), and the like).

"Amino" means the radical -NH<sub>2</sub>. Unless indicated otherwise, the compounds of the invention containing amino moieties include protected derivatives thereof. Suitable protecting groups for amino moieties include acetyl, *tert*-butoxycarbonyl, benzyloxycarbonyl, and the like.

"Animal" includes humans, non-human mammals (e.g., dogs, cats, rabbits, cattle, horses, sheep, goats, swine, deer, and the like) and non-mammals (e.g., birds, and the like).

"Aromatic" means a moiety wherein the constituent atoms make up an unsaturated ring system, all atoms in the ring system are  $sp^2$  hybridized and the total

number of pi electrons is equal to 4n+2.

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"Aryl" means a monocyclic or bicyclic ring assembly (fused or linked by a single bond) containing the total number of ring carbon atoms indicated, wherein each ring is comprised of 6 ring carbon atoms and is aromatic or when fused with a second 5 ring forms an aromatic ring assembly. For example, optionally substituted  $(C_{6-12})$  aryl as used in this Application to define R<sup>3</sup> includes biphenyl-2-yl, 2-bromophenyl, 2-bromocarbonylphenyl, 2-bromo-5-fluorophenyl, 4-tert-butylphenyl, 4-carbamoylphenyl, 4-carboxy-2-nitrophenyl, 2-chlorophenyl, 4-chlorophenyl, 3-chlorocarbonylphenyl, 4-chlorocarbonylphenyl, 2-chloro-4-fluorophenyl, 2-chloro-10 6-fluorophenyl, 4-chloro-2-nitrophenyl, 6-chloro-2-nitrophenyl, 2,6-dibromophenyl, 2,3-dichlorophenyl, 2,5-dichlorophenyl, 3,4-dichlorophenyl, 2-difluoromethoxyphenyl, 3,5-dimethylphenyl, 2-ethoxycarbonylphenyl, 2-fluorophenyl, 2-iodophenyl, 4-isopropylphenyl, 2-methoxyphenyl, 4-methoxyphenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 5-methyl-2-nitrophenyl, 4-methylsulfonylphenyl, 15 naphth-2-vl, 2-nitrophenyl, 3-nitrophenyl, 4-nitrophenyl, 2,3,4,5,6-pentafluorophenyl, phenyl, 2-trifluoromethoxyphenyl, 3-trifluoromethoxyphenyl, 4-trifluoromethoxyphenyl, 2-trifluoromethylphenyl, 3-trifluoromethylphenyl, 4-trifluoromethylphenyl, 2-trifluoromethylsulfanylphenyl, 4-trifluoromethylsulfanylphenyl, and the like. Optionally substituted  $(C_{6-12})$  aryl as used in this Application to define R<sup>4</sup> includes 3-acetylphenyl, 20 3-tert-butoxycarbonylaminomethylphenyl, biphenyl-4-yl, 3-hydroxyphenyl, 4-hydroxyphenyl, 3-methoxyphenyl, naphth-2-yl, 3-phenoxyphenyl, phenyl, and the like.

"Bicycloaryl" means a bicyclic ring assembly containing the number of ring carbon atoms indicated, wherein the rings are linked by a single bond or fused and one, but not both, of the rings comprising the assembly is aromatic, and any carbocyclic ketone, thioketone or iminoketone derivative thereof (e.g., (C<sub>9-12</sub>)bicycloaryl includes cyclohexylphenyl, 1,2-dihydronaphthyl, 2,4-dioxo-1,2,3,4-tetrahydronaphthyl, indanyl, indenyl, phenylcyclohexyl, 1,2,3,4-tetrahydronaphthyl, and the like).

"Carbamoyl" means the radical -C(O)NH<sub>2</sub>. Unless indicated otherwise, the compounds of the invention containing carbamoyl moieties include protected

derivatives thereof. Suitable protecting groups for carbamoyl moieties include acetyl, *tert*-butoxycarbonyl, benzyloxycarbonyl, and the like and both the unprotected and protected derivatives fall within the scope of the invention.

"Carbocyclic ketone derivative" means a derivative containing the moiety –C(O)–.

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"Carboxy" means the radical -C(O)OH. Unless indicated otherwise, the compounds of the invention containing carboxy moieties include protected derivatives thereof. Suitable protecting groups for carboxy moieties include benzyl, *tert*-butyl, and the like.

"Cycloalkenyl" means cycloalkyl, as defined in this Application, provided that the ring assembly is comprised of at least one double bond. Hence, optionally substituted (C<sub>5-12</sub>)cycloalkenyl as used in this Application to define R<sup>3</sup> includes cyclopent-1-enyl, 2-methylcyclopent-1-enyl, 2-nitrocyclopent-1-enyl, 2-fluorocyclopent-1-enyl, 2-trifluoromethylcyclopent-1-enyl, cyclohex-1-enyl, 2-methylcyclohex-1-enyl, 2-nitrocyclohex-1-enyl, 2-fluorocyclohex-1-enyl, 2-nitrocyclohex-1-enyl, 2-fluorocyclohex-1-enyl, 3-cyclohexa-1,3-dienyl, and the like).

"Cycloalkyl" means a saturated or partially unsaturated, monocyclic ring, bicyclic ring assembly (directly linked by a single bond or fused) or bridged polycyclic ring assembly containing the number of ring carbon atoms indicated, and any carbocyclic ketone, thioketone or iminoketone derivative thereof (e.g., (C<sub>3-12</sub>)cycloalkyl includes cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclohexenyl, 2,5-cyclohexadienyl, bicyclohexylyl, cyclopentylcyclohexyl, bicyclo[2.2.2]octyl, adamantan-1-yl, decahydronaphthyl, oxocyclohexyl, dioxocyclohexyl, thiocyclohexyl, 2-oxobicyclo[2.2.1]hept-1-yl, and the like).

"Cycloalkylene" means a divalent saturated or partially unsaturated, monocyclic ring or bridged polycyclic ring assembly containing the number of ring carbon atoms indicated, and any carbocyclic ketone, thioketone or iminoketone derivative thereof. For example, the instance wherein " $R^1$  and  $R^2$  together with the carbon atom to which both  $R^1$  and  $R^2$  are attached form ( $C_{3-8}$ )cycloalkylene" includes, but is not limited to, the following:

$$-\xi \stackrel{H}{\longrightarrow} C = N \qquad -\xi \stackrel{H}{\longrightarrow} C = N \qquad -\xi \stackrel{H}{\longrightarrow} C = N$$

"Disease" specifically includes any unhealthy condition of an animal or part thereof and includes an unhealthy condition that may be caused by, or incident to, medical or veterinary therapy applied to that animal, i.e., the "side effects" of such therapy.

"Halo" means fluoro, chloro, bromo or iodo.

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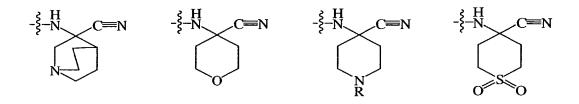
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"Halo-substituted alkyl", as an isolated group or part of a larger group, means "alkyl" substituted by one or more "halo" atoms, as such terms are defined in this Application. Halo-substituted alkyl includes haloalkyl, dihaloalkyl, trihaloalkyl, perhaloalkyl and the like (e.g. halo-substituted ( $C_{1-3}$ )alkyl includes chloromethyl, dichloromethyl, difluoromethyl, trifluoromethyl, 2,2,2-trifluoroethyl, perfluoroethyl, 2,2,2-trifluoro-1,1-dichloroethyl, and the like).

"Heteroatom moiety" includes -N=, -NR-, -O-, -S- or -S(O)<sub>2</sub>-, wherein R is hydrogen,  $(C_{1-6})$ alkyl or a protecting group.

"Heterocycloalkylene" means cycloalkylene, as defined in this Application, provided that one or more of the ring member carbon atoms indicated, is replaced by heteroatom moiety selected from -N=, -NR-, -O-, -S- or -S(O)<sub>2</sub>-, wherein R is hydrogen or  $(C_{1-6})$ alkyl. For example, the instance wherein "R<sup>1</sup> and R<sup>2</sup> together with the carbon atom to which both R<sup>1</sup> and R<sup>2</sup> are attached form hetero( $C_{3-8}$ )cycloalkylene" includes, but is not limited to, the following:



in which R is hydrogen, (C<sub>1-6</sub>)alkyl, or a protecting group.

"Heteroaryl" means aryl, as defined in this Application, provided that one or more of the ring carbon atoms indicated are replaced by a heteroatom moiety selected from -N=, -NR-, -O- or -S-, wherein R is hydrogen, (C<sub>1-6</sub>)alkyl, a protecting group or represents the free valence which serves as the point of attachment to a ring nitrogen, 5 and each ring is comprised of 5 or 6 ring atoms. For example, optionally substituted hetero(C<sub>5-12</sub>)aryl as used in this Application to define R<sup>3</sup> includes 4-amino-2-hydroxypyrimidin-5-yl, benzothiazol-2-yl, 1*H*-benzoimidazol-2-yl, 2-bromopyrid-5-yl, 5-bromopyrid-2-yl, 4-carbamoylthiazol-2-yl, 3-carboxypyrid-4-yl, 5-carboxy-2,6-dimethylpyrid-3-yl, 3,5-dimethylisoxazol-4-yl, 5-ethoxy-2,6-dimethylpyrid-3-yl, 5-fluoro-6-hydroxypyrimidin-4-yl, fur-2-yl, fur-3-yl, 5-hydroxy-10 4,6-dimethylpyrid-3-yl, 8-hydroxy-5,7-dimethylquinolin-2-yl, 5-hydroxymethylisoxazol-3-yl, 3-hydroxy-6-methylpyrid-2-yl, 3-hydroxypyrid-2-yl, 1*H*-imidazol-2-yl, 1*H*-imidazol-4-yl, 1*H*-indol-3-yl, isothiazol-4-yl, isoxazol-4-yl, 2-methylfur-3-yl, 5-methylfur-2-yl, 1-methyl-1*H*-imidazol-2-yl, 5-methyl-3H-imidazol-4-yl, 5-methylisoxazol-3-yl, 5-methyl-2H-pyrazol-3-yl, 15 3-methylpyrid-2-yl, 4-methylpyrid-2-yl, 5-methylpyrid-2-yl, 6-methylpyrid-2-yl, 2-methylpyrid-3-yl, 2-methylthiazol-4-yl, 5-nitropyrid-2-yl, 2*H*-pyrazol-3-yl, 3H-pyrazol-4-yl, pyridazin-3-yl, pyrid-2-yl, pyrid-3-yl, pyrid-4-yl, 5-pyrid-3-yl-2*H*-[1,2,4]triazol-3-yl, pyrimidin-4-yl, pyrimidin-5-yl, 1*H*-pyrrol-3-yl, 20 quinolin-2-yl, 1H-tetrazol-5-yl, thiazol-2-yl, thiazol-5-yl, thien-2-yl, thien-3-yl, 2H-[1,2,4]triazol-3-yl, 3H-[1,2,3]triazol-4-yl, 5-trifluoromethylpyrid-2-yl, and the like. Suitable protecting groups include *tert*-butoxycarbonyl, benzyloxycarbonyl, benzyl, 4-methoxybenzyl, 2-nitrobenzyl, and the like. Optionally substituted hetero( $C_{5-12}$ )aryl

"Heterobicycloaryl" means bicycloaryl, as defined in this Application, provided that one or more of the ring carbon atoms indicated are replaced by a heteroatom moiety selected from -N=, -NR-, -O- or -S-, wherein R is hydrogen,  $(C_{1-6})$ alkyl, a protecting group or represents the free valence which serves as the point of attachment to a ring nitrogen, and any carbocyclic ketone, thioketone or iminoketone derivative thereof. For example, optionally substituted hetero $(C_{8-12})$ bicycloaryl as used in this Application to

as used in this Application to define R<sup>4</sup> includes benzofur-2-yl, fur-3-yl,

pyrid-3-yl, pyrid-4-yl, quinol-2-yl, quinol-3-yl, thien-2-yl, thien-3-yl, and the like.

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define R<sup>3</sup> includes 2-amino-4-oxo-3,4-dihydropteridin-6-yl, and the like. In general, the term heterobicycloaryl as used in this Application includes, for example, benzo[1,3]dioxol-5-ylcarbonyl, 3,4-dihydro-2*H*-[1,8]naphthyridinyl, 3,4-dihydro-2*H*-quinolinyl, 2,4-dioxo-3,4-dihydro-2*H*-quinazolinyl,

- 1,2,3,4,5,6-hexahydro[2,2']bipyridinylyl, morpholinylpyridyl, 3-oxo-2,3-dihydrobenzo[1,4]oxazinyl, piperidinylphenyl, 5,6,7,8-tetrahydroquinolinyl, and the like. For example, hetero(C<sub>5-12</sub>)aryl as used in this Application to define R<sup>4</sup> includes benzo[1,3]dioxol-5-yl. For example, hetero(C<sub>8-12</sub>)bicycloaryl(C<sub>0-3</sub>)alkyl used to describe R<sup>11</sup> in this Application, includes 1-oxo-1,3-dihydroisoindol-2-yl, quinolin-3-yl, quinolin-2-yl, 3a,7a-dihydrobenzo[1,3]dioxol-5-yl, naphthalen-2-yl,
  - 3-chlorobenzo[b]thiophen-2-yl, benzo[b]thiophen-2-yl and 1H-indol-5-yl, and the like.

"Heterocycloalkenyl" means heterocycloalkyl, as defined in this Application, provided that the ring assembly is comprised of at least one double bond. Hence, optionally substituted hetero(C<sub>5-12</sub>)cycloalkenyl as used in this Application to define R<sup>3</sup> includes 2,4-dioxo-1,2,3,4-tetrahydropyrimidin-5-yl, 2,6-dioxo-1,2,3,6-tetrahydropyrimidin-4-yl, 5-hydroxy-4-oxo-4*H*-pyran-2-yl, 5-methoxy-4-oxo-4*H*-pyran-2-yl, 6-oxo-1,6-dihydropyrimidin-5-yl, 4-oxo-1,4-dihydropyrid-2-yl, 6-oxo-

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"Heterocycloalkyl" means cycloalkyl, as defined in this Application, provided that one or more of the ring carbon atoms indicated are replaced by a heteroatom moiety selected from -N=, -NR-, -O- or -S-, wherein R is hydrogen,  $(C_{1-6})$ alkyl, a protecting group or represents the free valence which serves as the point of attachment to a ring nitrogen, and any carbocyclic ketone, thioketone or iminoketone derivative thereof (e.g., the term hetero( $C_{5-12}$ )cycloalkyl includes [1,4]bipiperidinylyl, 1',2'-dihydro-

1,6-dihydropyrid-2-yl, 6-oxo-1,6-dihydropyrid-3-yl, and the like).

- 25 2H-[1,4]bipyridinylyl, imidazolidinyl, morpholinyl, 1-morpholin-4-ylpiperidinyl, piperazinyl, piperidyl, pyrrolidinyl, pyrrolinyl, quinuclidinyl, and the like). Thus, for example, optionally substituted hetero( $C_{5-12}$ )cycloalkyl as used in this Application to define  $R^4$  includes 4-tert-butoxycarbonylpiperazin-1-yl,
  - 4-ethoxycarbonylpiperazin-1-yl, 4-fur-2-ylcarbonylpiperazin-1-yl, morpholin-4-yl, and the like. Suitable protecting groups include *tert*-butoxycarbonyl, benzyloxycarbonyl, benzyl, 4-methoxybenzyl, 2-nitrobenzyl, and the like. For example, a compound of

Formula I wherein R<sup>4</sup> is piperidin-4-ylcarbonyl may exist as either the unprotected or a protected derivative, e.g., wherein R<sup>4</sup> is 4-*tert*-butoxycarbonylpiperazin-1-ylcarbonyl, and both the unprotected and protected derivatives fall within the scope of the invention.

"Hydroxy" means the radical -OH. Unless indicated otherwise, the compounds of the invention containing hydroxy radicals include protected derivatives thereof. Suitable protecting groups for hydroxy moieties include benzyl and the like.

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"Iminoketone derivative" means a derivative containing the moiety -C(NR)-, wherein R is hydrogen or  $(C_{1-6})$ alkyl.

"Isomers" mean compounds of Formula I having identical molecular formulae but differ in the nature or sequence of bonding of their atoms or in the arrangement of their atoms in space. Isomers that differ in the arrangement of their atoms in space are termed "stereoisomers". Stereoisomers that are not mirror images of one another are termed "diastereomers" and stereoisomers that are nonsuperimposable mirror images are termed "enantiomers" or sometimes "optical isomers". A carbon atom bonded to four nonidentical substituents is termed a "chiral center". A compound with one chiral center has two enantiomeric forms of opposite chirality is termed a "racemic mixture". A compound that has more than one chiral center has  $2^{n-1}$  enantiomeric pairs, where n is the number of chiral centers. Compounds with more than one chiral center may exist as ether an individual diastereomers or as a mixture of diastereomers, termed a "diastereomeric mixture". When one chiral center is present a stereoisomer may be characterized by the absolute configuration of that chiral center. Absolute configuration refers to the arrangement in space of the substituents attached to the chiral center. Enantiomers are characterized by the absolute configuration of their chiral centers and described by the R- and S-sequencing rules of Cahn, Ingold and Prelog. Conventions for stereochemical nomenclature, methods for the determination of stereochemistry and the separation of stereoisomers are well known in the art (e.g., see "Advanced Organic Chemistry", 4th edition, March, Jerry, John Wiley & Sons, New York, 1992). It is understood that the names and illustration used in this Application to describe compounds of Formula I are meant to be encompassed all possible stereoisomers. Thus, for example, the name N-[1-cyanomethylcarbamoyl-2-(3,4-

difluorobenzylsulfonyl)ethyl]benzamide is meant to include *N*-[1-*R*-cyanomethylcarbamoyl-2-(3,4-difluorobenzylsulfonyl)ethyl]benzamide and *N*-[1-*S*-cyanomethylcarbamoyl-2-(3,4-difluorobenzylsulfonyl)ethyl]benzamide and any mixture, racemic or otherwise, thereof.

"Ketone derivative" means a derivative containing the moiety -C(O)-.

"Methylene" means the divalent radical -CH<sub>2</sub>-.

"Nitro" means the radical -NO<sub>2</sub>.

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"Optional" or "optionally" means that the subsequently described event or circumstance may or may not occur, and that the description includes instances where the event or circumstance occurs and instances in which it does not. For example, the phrase "R<sup>3</sup> optionally is substituted by 1 to 5 radicals" means that R<sup>3</sup> may or may not be substituted in order to fall within the scope of the invention.

"Ortho" and "meta" have the meaning typically associated with their usage in organic chemistry. Hence, the phrase "R<sup>22</sup> at the first occurrence is attached at the ring carbon ortho or meta to the 1-position of the phenyl moiety", refers to the following illustrative example:

$$S(O)_2$$
  $(R^{22})_n$ 

wherein  $R^{22}$  is attached at the 2 or 3-position.

"N-oxide derivatives" means derivatives of compounds of Formula I in which nitrogens are in an oxidized state (i.e., O-N) and which possess the desired pharmacological activity.

"Pathology" of a disease means the essential nature, causes and development of the disease as well as the structural and functional changes that result from the disease processes.

"Pharmaceutically acceptable" means that which is useful in preparing a pharmaceutical composition that is generally safe, non-toxic and neither biologically

nor otherwise undesirable and includes that which is acceptable for veterinary use as well as human pharmaceutical use.

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"Pharmaceutically acceptable salts" means salts of compounds of Formula I which are pharmaceutically acceptable, as defined above, and which possess the desired pharmacological activity. Such salts include acid addition salts formed with inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid, and the like; or with organic acids such as acetic acid, propionic acid, hexanoic acid, heptanoic acid, cyclopentanepropionic acid, glycolic acid, pyruvic acid, lactic acid, malonic acid, succinic acid, malic acid, maleic acid, fumaric acid, tartatic acid, citric acid, benzoic acid, o-(4-hydroxybenzoyl)benzoic acid, cinnamic acid, madelic acid, methanesulfonic acid, ethanesulfonic acid, 1,2-ethanedisulfonic acid, 2-hydroxyethanesulfonic acid, benzenesulfonic acid, p-chlorobenzenesulfonic acid, 2-naphthalenesulfonic acid, p-toluenesulfonic acid, camphorsulfonic acid, 4-methylbicyclo[2.2.2]oct-2-ene-1-carboxylic acid, glucoheptonic acid, 4,4'-methylenebis(3-hydroxy-2-ene-1-carboxylic acid), 3-phenylpropionic acid, trimethylacetic acid, tertiary butylacetic acid, lauryl sulfuric acid, gluconic acid, glutamic acid, hydroxynaphthoic acid, salicylic acid, stearic acid, muconic acid and the like.

Pharmaceutically acceptable salts also include base addition salts which may be formed when acidic protons present are capable of reacting with inorganic or organic bases. Acceptable inorganic bases include sodium hydroxide, sodium carbonate, potassium hydroxide, aluminum hydroxide and calcium hydroxide. Acceptable organic bases include ethanolamine, diethanolamine, triethanolamine, tromethamine, *N*-methylglucamine and the like.

"Prodrug" means a compound which is convertible in vivo by metabolic means (e.g. by hydrolysis) to a compound of Formula I. For example an ester of a compound of Formula I containing a hydroxy group may be convertible by hydrolysis in vivo to the parent molecule. Alternatively an ester of a compound of Formula I containing a carboxy group may be convertible by hydrolysis in vivo to the parent molecule. Suitable esters of compounds of Formula I containing a hydroxy group, are for example acetates, citrates, lactates, tartrates, malonates, oxalates, salicylates, propionates,

succinates, fumarates, maleates, methylene-bis-b-hydroxynaphthoates, gentisates, isethionates, di-*p*-toluoyltartrates, methanesulphonates, ethanesulphonates, benzenesulphonates, p-toluenesulphonates, cyclohexylsulphamates and quinates. Suitable esters of compounds of Formula I containing a carboxy group, are for example those described by F.J.Leinweber, Drug Metab. Res., 1987, 18, page 379. An especially useful class of esters of compounds of Formula I containing a hydroxy group, may be formed from acid moieties selected from those described by Bundgaard et al., J. Med. Chem., 1989, 32, page 2503-2507, and include substituted (aminomethyl)-benzoates, for example, dialkylamino-methylbenzoates in which the two alkyl groups may be joined together and/or interrupted by an oxygen atom or by an optionally substituted nitrogen atom, e.g. an alkylated nitrogen atom, more especially (morpholino-methyl)benzoates, e.g. 3- or 4-(morpholinomethyl)-benzoates, and (4-alkylpiperazin-1-yl)benzoates, e.g. 3- or 4-(4-alkylpiperazin-1-yl)benzoates.

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"Protected derivatives" means derivatives of compounds of Formula I in which a reactive site or sites are blocked with protecting groups. Protected derivatives of compounds of Formula I are useful in the preparation of compounds of Formula I or in themselves may be active cathepsin S inhibitors. A comprehensive list of suitable protecting groups can be found in T.W. Greene, *Protecting Groups in Organic Synthesis*, 3rd edition, John Wiley & Sons, Inc. 1999.

"Therapeutically effective amount" means that amount which, when administered to an animal for treating a disease, is sufficient to effect such treatment for the disease.

"Thioketone derivative" means a derivative containing the moiety -C(S)-.

"Treatment" or "treating" means any administration of a compound of the present invention and includes:

- (1) preventing the disease from occurring in an animal which may be predisposed to the disease but does not yet experience or display the pathology or symptomatology of the disease,
- inhibiting the disease in an animal that is experiencing or displaying the
   pathology or symptomatology of the diseased (i.e., arresting further development of the pathology and/or symptomatology), or

(3) ameliorating the disease in an animal that is experiencing or displaying the pathology or symptomatology of the diseased (i.e., reversing the pathology and/or symptomatology).

## 5 Nomenclature:

The compounds of Formula I and the intermediates and starting materials used in their preparation are named in accordance with IUPAC rules of nomenclature in which the characteristic groups have decreasing priority for citation as the principle group as follows: acids, esters, amides, etc. Alternatively, the compounds are named by AutoNom 4.0 (Beilstein Information Systems, Inc.). For example, a compound of Formula I in which R<sup>1</sup> and R<sup>2</sup> are each hydrogen, R<sup>3</sup> is phenyl, X<sup>2</sup> is methylene and R<sup>4</sup> is naphthalen-2-yl-methanoyl; that is, a compound having the following structure:

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is named N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)naphthalene-2-carboxamide or naphthalene-2-carboxylic acid [(R)-1-(cyanomethyl-carbamoyl)-2-phenylmethanesulfonyl-ethyl]-amide;

# 20 Presently Preferred Embodiments:

While the broadest definition of the invention is set forth in the Summary of the Invention, certain aspects of the invention are preferred. For example,  $R^1$  particularly represents hydrogen and  $R^2$  represents hydrogen, hetero( $C_5$ )aryl or ( $C_{1-4}$ )alkyl-substituted hetero( $C_5$ )aryl or  $R^1$  and  $R^2$  together with the carbon atom to which both  $R^1$  and  $R^2$  are attached form ( $C_{3-5}$ )cycloalkylene or ( $C_{5-6}$ )heterocycloalkylene.

Preferably  $X^1$  and  $X^2$  are both methylene and  $R^3$  represents ( $C_{2-6}$ )alkenyl, ( $C_{6-12}$ )aryl or hetero( $C_{5-12}$ )aryl, each optionally substituted by 1 to 5 radicals selected from a group consisting of ( $C_{1-4}$ )alkyl, cyano, halo, halo-substituted ( $C_{1-4}$ )alkyl, nitro,  $-X^3NR^9R^9$ ,  $-X^3OR^9$ ,  $-X^3SR^9$ ,  $-X^3C(O)NR^9R^9$ ,  $-X^3C(O)OR^9$ ,  $-X^3S(O)R^{10}$ ,

- 5 -X<sup>3</sup>S(O)<sub>2</sub>R<sup>10</sup> and -X<sup>3</sup>C(O)R<sup>10</sup>, wherein X<sup>3</sup> is a bond or (C<sub>1-2</sub>)alkylene, R<sup>9</sup> at each occurrence independently is hydrogen, (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl and R<sup>10</sup> is (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl. R<sup>3</sup> more preferably represents biphenyl, isooxazolyl, naphthyl, phenyl, pyridyl, thienyl or vinyl, each optionally substituted by 1 to 5 radicals selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo,
- halo-substituted ( $C_{1-4}$ )alkyl, nitro,  $-X^3NR^9R^9$ ,  $-X^3OR^9$ ,  $-X^3SR^9$ ,  $-X^3C(O)NR^9R^9$ ,  $-X^3C(O)OR^9$ ,  $-X^3S(O)R^{10}$ ,  $-X^3S(O)_2R^{10}$  and  $-X^3C(O)R^{10}$ , wherein  $X^3$  is a bond or ( $C_{1-2}$ )alkylene,  $R^9$  at each occurrence independently is hydrogen, ( $C_{1-3}$ )alkyl or halo-substituted ( $C_{1-3}$ )alkyl and  $R^{10}$  is ( $C_{1-3}$ )alkyl or halo-substituted ( $C_{1-3}$ )alkyl.  $R^3$  more preferably represents biphenyl-2-yl, 2,4-bistrifluoromethylphenyl,
- 2,5-bistrifluoromethylphenyl, 4-*tert*-butylphenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 2-bromo-5-fluorophenyl, 3-chloro-2-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 5-chlorothien-2-yl, 2-chloro-5-trifluoromethyl, 2-cyanophenyl, 3-cyanophenyl, 4-cyanophenyl, 1,5-dichlorophenyl, 2,6-dichlorophenyl, 3,4-difluorophenyl, 2,3-difluorophenyl, 2,4-difluorophenyl, 3,4-difluorophenyl,
- 20 2-difluoromethoxyphenyl, 3-difluoromethoxyphenyl, 4-difluoromethoxyphenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 3,5-dimethylisooxaxol-4-yl, 3,5-dimethylphenyl, 2-fluoro-6-nitrophenyl, 2-fluorophenyl, 4-fluorophenyl, 2-fluoro-3-trifluoromethylphenyl, 2-fluoro-6-trifluoromethylphenyl, 2-fluoro-5-trifluoromethylphenyl, 2-fluoro-6-trifluoromethylphenyl, 4-fluoro-
- 2-trifluoromethylphenyl, 4-fluoro-3-trifluoromethylphenyl, 2-iodophenyl, 3-iodophenyl, 4-iodophenyl, 2-methoxyphenyl, 4-methoxyphenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 3-methyl-2-fluorophenyl, naphth-2-yl, 2-nitrophenyl, 3-nitrophenyl, 4-nitrophenyl, 2,3,4,5,6-pentafluorophenyl, phenyl, prop-2-en-1-yl, pyrid-2-yl, pyrid-3-yl, pyrid-4-yl, 2-trifluoromethoxyphenyl, 3-trifluoromethoxyphenyl,
- 4-trifluoromethoxyphenyl, 3-trifluoromethylphenyl, 4-trifluoromethylphenyl,
   2-trifluoromethylsulfanylphenyl,
   3-trifluoromethylsulfanylphenyl,

4-trifluoromethylsulfanylphenyl, 2,3,4-trifluorophenyl, 2,3,5-trifluorophenyl, 2,4,6-trifluorophenyl, 2,4,5-trifluorophenyl or 2,3,6-trifluorophenyl.

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In particular,  $X^1$ ,  $X^2$  and  $R^3$  along with the sulfonyl moiety to which  $X^1$  and  $X^2$  are attached together represent a group having the following formula:

 $S(O)_2$ 

in which n is 0, 1, 2, 4 or 5 and R<sup>22</sup> at each occurrence independently is selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo, halo-substituted (C<sub>1-4</sub>)alkyl, nitro,  $-X^{3}NR^{9}R^{9}$ ,  $-X^{3}OR^{9}$ ,  $-X^{3}SR^{9}$ ,  $-X^{3}C(O)NR^{9}R^{9}$ ,  $-X^{3}C(O)OR^{9}$ ,  $-X^{3}S(O)R^{10}$ , 10  $-X^3S(O)_2R^{10}$  and  $-X^3C(O)R^{10}$ , wherein  $X^3$  is a bond or  $(C_{1-2})$ alkylene,  $R^9$  at each occurrence independently is hydrogen,  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl and  $\mathbb{R}^{10}$ is  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl; more particularly in which n is 0, 1 or 2 and R<sup>22</sup> at each occurrence independently is selected from a group consisting of  $(C_{1-4})$ alkyl, cyano, halo, halo-substituted  $(C_{1-4})$ alkyl, nitro,  $-OR^9$ ,  $-SR^9$  and  $-C(O)OR^9$ , 15 wherein  $R^9$  at each occurrence independently is hydrogen,  $(C_{1.3})$  alkyl or halo-substituted (C<sub>1.3</sub>)alkyl; more particularly in which R<sup>22</sup> at each occurrence independently is selected from a group consisting of (C<sub>1-4</sub>)alkyl, bromo, carboxy, chloro, cyano, difluoromethoxy, fluoro, iodo, methoxy, nitro, trifluoromethoxy, trifluoromethyl and trifluorosulfanyl; more particularly in which at the first occurrence 20 is attached at the ring carbon ortho or meta to the 1-position of the phenyl moiety.

R<sup>4</sup> preferably may represent -C(O)X<sup>4</sup>R<sup>11</sup> or -S(O)<sub>2</sub>X<sup>4</sup>R<sup>11</sup>, wherein X<sup>4</sup> is a bond, -O- or -NR<sup>12</sup>-, wherein R<sup>12</sup> is hydrogen or (C<sub>1-6</sub>)alkyl, and R<sup>11</sup> is (C<sub>1-6</sub>)alkyl, (C<sub>3-12</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, hetero(C<sub>5-12</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, (C<sub>6-10</sub>)aryl(C<sub>0-3</sub>)alkyl, hetero(C<sub>5-10</sub>)aryl(C<sub>0-3</sub>)alkyl, hetero(C<sub>5-10</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, wherein the hetero(C<sub>5-6</sub>)cycloalkyl or phenyl is substituted in the ring by -X<sup>5</sup>OR<sup>15</sup> or -X<sup>5</sup>C(O)R<sup>15</sup>,

wherein  $X^5$  is a bond or methylene and  $R^{15}$  is phenyl( $C_{0-3}$ )alkyl or hetero( $C_{5.6}$ )aryl( $C_{0.3}$ )alkyl, wherein any aryl or heteroaryl group comprising  $\mathbb{R}^4$ optionally is substituted in the ring by 1 to 2 substituents selected from (C<sub>1-6</sub>)alkyl, halo, halo-substituted ( $C_{1-3}$ )alkyl,  $-X^5OR^{17}$ ,  $-X^5NR^{17}C(O)OR^{17}$ ,  $-X^5C(O)OR^{17}$  or  $-X^5C(O)R^{18}$ , wherein X<sup>5</sup> is a bond or (C<sub>1-6</sub>)alkylene, R<sup>17</sup> is hydrogen, (C<sub>1-6</sub>)alkyl or halo-substituted 5  $(C_{1.3})$ alkyl and  $R^{18}$  is  $(C_{1.6})$ alkyl or halo-substituted  $(C_{1.3})$ alkyl.  $R^4$  more preferably may represent 3-acetylbenzoyl, allyloxycarbonyl, 2-aminopyrid-3-ylcarbonyl, 6-aminopyrid-3-ylcarbonyl, benzo[1,3]dioxol-5-ylcarbonyl, benzoyl, 4-benzoylbenzoylcarbonyl, benzo[1,3]dioxol-3-ylcarbonyl, benzofur-2-ylcarbonyl, 10 biphenyl-4-ylcarbonyl, 4-bromobenzoyl, 3-bromothien-2-yl, tert-butoxycarbonyl, 3-tert-butoxycarbonylaminomethylbenzoyl, 4-tert-butoxycarbonylpiperazin-1-ylcarbonyl, 3-chlorobenzoyl, 4-chlorobenzoyl, 3-chlorothienylcarbonyl, cyclopentylcarbonyl, 3,4-difluorobenzoyl, 3,4-dimethoxybenzoyl, dimethylcarbamoyl, 4-ethoxycarbonylpiperazin-1-ylcarbonyl, 4-fluorobenzoyl, 3-fluoro-4-methoxybenzoyl, fur-2-ylcarbonyl, fur-3-ylcarbonyl, 15 4-fur-2-ylcarbonylpiperazin-1-ylcarbonyl, 3-hydroxybenzoyl, 4-hydroxybenzoyl, 4-hydroxypyrid-3-vl, 6-hydroxypyrid-3-vl, 1*H*-indol-4-ylcarbonyl, isopropylcarbamoyl, isobutyloxycarbonyl, isopropyloxycarbonyl, 3-methoxybenzoyl, 4-methoxybenzoyl, 3-methylbenzoyl, 5-methylthienylcarbonyl, 4-methylvaleryl, morpholin-4-ylcarbonyl, 20 naphth-2-ylcarbonyl, naphth-2-ylsulfonyl, 3-phenoxybenzoyl, 3-phenylacryloyl, phenylsulfonyl, pyrazin-2-ylcarbonyl, 3-pyrid-3-ylacryl, pyrid-2-ylcarbonyl, pyrid-3-ylcarbonyl, pyrid-4-ylcarbonyl, quinol-2-ylcarbonyl, quinol-3-ylcarbonyl, thien-2-ylcarbonyl, thien-3-ylcarbonyl, thien-2-ylsulfonyl, 4-trifluoromethoxybenzoyl or 4-trifluoromethylbenzoyl.

R<sup>4</sup> more preferably is benzoyl, morpholin-4-ylcarbonyl, thienylcarbonyl, indolylcarbonyl or pyridinylcarbonyl, optionally substituted in the ring by 1 to 2 substituents selected from fluoro and methyl. In particular, R<sup>4</sup> represents one of the following formulae:

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$$(a) \qquad (b) \qquad (c)$$

$$(a) \qquad (b) \qquad (c)$$

$$(c) \qquad (d) \qquad (f)$$

namely benzoyl, morpholin-4-ylcarbonyl, thien-2-yl, thien-3-yl, indol-4-yl and pyridin-4-yl, respectively, optionally substituted in the ring by 1 to 2 substituents selected from fluoro and methyl.

Reference to the preferred embodiments set forth above is meant to include all combinations of particular and preferred groups.

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Particular compounds of the invention are selected from the compounds formed by joining the acyl carbon atom (C\*) of one of the fragments (A1 to A36 or A40 to A71) shown in Table 1 to the nitrogen atom (N\*) of one of the substituted aminoalkyl fragments (B1 to B75) shown in Table 2, and joining the methine carbon atom (CH\*) of one of the substituted aminoalkyl fragments (B1 to B75) shown in Table 2 to the acyl carbon atom (C\*) of one of the acyl-aminoalkylnitrile fragments(C1 to C9) depicted in Table 3.

Further particular compounds of the invention are selected from the compounds formed by joining the sulphonyl atom (SO<sub>2</sub>\*) of one of the fragments (A37 to A39) shown in Table 1 to the nitrogen atom (N\*) of one of the substituted aminoalkyl fragments (B1 to B75) shown in Table 2, and joining the methine carbon atom (CH\*) of one of the substituted aminoalkyl fragments (B1 to B75) shown in Table 2 to the acyl carbon atom (C\*) of one of the acyl-aminoalkylnitrile fragments(C1 to C9) depicted in Table 3.

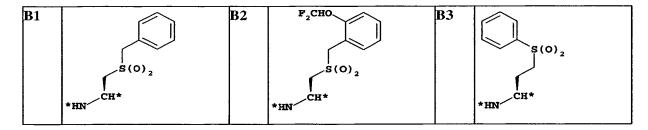
TABLE 1

| A1  | 0<br>0<br>c* | A2         | ĭÅ_C*     | А3  | H <sub>3</sub> C C*            |
|-----|--------------|------------|-----------|-----|--------------------------------|
|     |              |            |           |     |                                |
| A4  | o==*         | <b>A</b> 5 | C*        | A6  | OMe                            |
| A7  | Ü*           | <b>A8</b>  | °C*       | A9  | 0<br>C*                        |
| A10 | c*           | A11        | Č*        | A12 | ° ::                           |
| A13 | Č*           | A14        | N C*      | A15 | O<br>  <br><sup>t</sup> BuO C* |
| A16 | Ö, Ö         | A17        | *BuO H C* |     | H <sub>3</sub> C               |
| A19 | но ё*        |            | но С+     | A21 | t <sub>BuO</sub> N C*          |
| A22 | O C*         | A23        | O C T     | A24 | C*                             |

| A25 | N C*               | A26 | 0<br> <br> -<br>  C*   | A27 | O    C*               |
|-----|--------------------|-----|--|-----|-----------------------|
| A28 | s "c*              | A29 | s C*   | A30 | o c t                 |
| A31 | Me S C*            | A32 | 0<br>C*  | A33 | S C*                  |
| A34 | ë*                 | A35 | \$ "C*   | A36 | 0<br>  <br> C*        |
| A37 | Me S*              | A38 | s*   | A39 | 0, 0, 0               |
| A40 | CF <sub>3</sub> C* | A41 | F C*   | A42 | C1 C*                 |
| A43 | Br C*              | l   | Meo C*   | A45 | CF <sub>3</sub> O C*  |
| A46 | F C*               | A47 | MeO "C*  | A48 | Me C*                 |
| A49 | 0<br>C*            | A50 | (CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>2</sub> C* | A51 | O<br>  <br> C*<br> C* |

| A52 | CH3O C*                                |     | Ct <sub>2</sub> =CHCH <sub>2</sub> O | A54 | O   <br>  <br> CH <sub>3</sub> ) <sub>2</sub> CHO |
|-----|--|-----|--------------------------------------|-----|---|
| A55 | (CH <sub>3</sub> ) <sub>2</sub> CHNHC* | A56 | O<br> <br> C*                        | A57 | H C*  |
| A58 | N C*                                   | A59 | c*                                   | A60 | O C*  |
| A61 | N C*                                   | A62 | C*                                   | A63 | N C*  |
| A64 | N OH C*                                | A65 | HO N C*                              | A66 | H <sub>2</sub> N N C*                             |
| A67 | C*                                     | A68 | Ľc*                                  | A69 | ° C*  |
| A70 | °c*                                    | A71 | N C *                                | A72 | S S*  |

# TABLE 2



| B4         | *HN CH*                   | B5  | S(O) <sub>2</sub> | <b>B</b> 6 | *HN CH*                   |
|------------|---------------------------|-----|-------------------|------------|---------------------------|
| B7         | S(O) <sub>2</sub> *HN CH* | В8  | *HN CH*           | В9         | OMe<br>S(O) <sub>2</sub>  |
| B10        | *HN CH*                   | B11 | *HN CH*           | B12        | *HN CH*                   |
| B13        | *HN CH*                   | B14 | *HN CH*           | B15        | S(O) <sub>2</sub> *HN CH* |
| <b>B16</b> | S(O) <sub>2</sub> *HN CH* | B17 | *HN CH*           | B18        | *HN CH*                   |

|     |                             |     |   |     | <del></del>               |
|-----|-----------------------------|-----|---|-----|---------------------------|
| B19 | S(O) <sub>2</sub>           | B20 | S(O) <sub>2</sub>                         | B21 | C1<br>S(O) <sub>2</sub>   |
|     | - TAN                       |     | *HN                                       |     | *HN CH*                   |
| B22 | S(0) <sub>2</sub>           | B23 | CF <sub>3</sub>                           | B24 | OCF <sub>3</sub>          |
|     | *HN CH*                     |     | *HN CH*                                   |     | *HN CH*                   |
| B25 | F<br>F<br>S(0) <sub>2</sub> | B26 | S(0) <sub>2</sub>                         | В27 | C1<br>S(O) <sub>2</sub>   |
|     | *HN CH*                     |     | *HN CH*                                   |     | *HN CH*                   |
| B28 | *HN CH*                     | B29 | CF <sub>3</sub> S(O) <sub>2</sub> *HN CH* | B30 | NC<br>S(O) <sub>2</sub>   |
| В31 | *HN CH*                     | В32 | S(O) <sub>2</sub> *HN CH*                 | В33 | S(O) <sub>2</sub> *HN CH* |
| B34 | S(O) <sub>2</sub>           | B35 | *HN CH*                                   | В36 | *HN CH*                   |

|     |                             |             |                                |     | · · · · · · · · · · · · · · · · · · ·       |
|-----|-----------------------------|-------------|--------------------------------|-----|---|
| B37 | F S(O) <sub>2</sub> *HN CH* | В38         | C1  S(0) <sub>2</sub> *HN  CH* | В39 | *HN CH*                                     |
| B40 | S(O) <sub>2</sub> *HN CH*   | B41         | *HN CH*                        | B42 | CF <sub>3</sub> O S(O) <sub>2</sub> *HN CH* |
| B43 | F<br>S(O) <sub>2</sub>      | B44         | *HN CH*                        | B45 | S(O) <sub>2</sub>                           |
| B46 | *HN CH*                     | B47         | S(O) <sub>2</sub> *HN CH*      | B48 | *HN CH*                                     |
| B49 | F S(O) <sub>2</sub> *HN CH* | <b>B</b> 50 | F F S(O) <sub>2</sub> *HN CH*  | B51 | F F F S(O) <sub>2</sub> *HIN CH*            |

| D52 | C1  | D52         | CF <sub>3</sub> CF <sub>3</sub>             | D54 | F   |
|-----|---|-------------|---|-----|---|
| B52 | CF <sub>3</sub>                             | <b>B</b> 53 | CF <sub>3</sub> CF <sub>3</sub>             | B54 | F S(O) <sub>2</sub>                                 |
|     | *HN CH*                                     | :           | *HN CH*                                     |     | *HN CH*   |
| B55 | CF <sub>3</sub> F S(O) <sub>2</sub>         | B56         | S(O) <sub>2</sub>                           | B57 | F S(O) <sub>2</sub>                                 |
|     | *HN CH*                                     |             | *HN   |     | *HN   |
| B58 | F   | B59         | S(O) <sub>2</sub>                           | B60 | CF <sub>3</sub> F                                   |
|     | s(O) <sub>2</sub>                           |             | *HN CH*                                     |     | *HN CH*   |
| B61 | CF <sub>3</sub> F S(O) <sub>2</sub> *HN CH* | B62         | MeO<br>S(O) <sub>2</sub><br>*HN CH*         | B63 | CF <sub>3</sub> CF <sub>3</sub> CF <sub>3</sub> *HN |
| B64 | OCHF <sub>2</sub> S(O) <sub>2</sub> *HN CH* | B65         | OCHF <sub>2</sub> S(O) <sub>2</sub> *HN CH* | B66 | C1 C1 S(O) <sub>2</sub> *HN CH*                     |
| B67 | S(O) <sub>2</sub> *HN CH*                   | B68         | Me N O S(O) <sub>2</sub> Me *HN CH*         | B69 | S(O) <sub>2</sub> *HN CH*                           |
| I   |   |             |   | ļ   |   |

| B70 | F <sub>2</sub> CHO<br>S(0) <sub>2</sub><br>*HN CH* | B71 | OCHF <sub>2</sub> S(O) <sub>2</sub> *HN CH* | B72         | OCHF <sub>2</sub> S(O) <sub>2</sub> *HN CH* |
|-----|--|-----|---|-------------|---|
| В73 | S(O) <sub>2</sub> *HN CH*                          | B74 | OCF <sub>3</sub> S(O) <sub>2</sub> *HN CH*  | <b>B</b> 75 | OCF <sub>3</sub> S(O) <sub>2</sub> *HN CH*  |

# TABLE 3

| 5 |     |          |     |          |    |                                     |
|---|-----|----------|-----|----------|----|-------------------------------------|
|   |     | +c N c N | C2  | *C N C N |    | *C N C N                            |
|   |     | *c N C N |     | *C N C N | C6 | *C N C N OMe                        |
|   | C7  | *c N C N |     | *C N C N | С9 | H C N  C N  C N  F  CH <sub>3</sub> |
|   | C10 | *CNCNN   | C11 | *C N C N |    | ,                                   |

Particularly preferred examples of fragments "A", "B", and "C" are illustrated below:

| A1-B1-C1;  | A1-B1-C2;  | A1-B1-C3;  | A1-B1-C4;  | A1-B1-C5;  | A1-B1-C6;  |
|------------|------------|------------|------------|------------|------------|
| A1-B1-C7;  | A1-B1-C8;  | A1-B1-C9;  | A2-B1-C1;  | A2-B1-C2;  | A2-B1-C3;  |
| A2-B1-C4;  | A2-B1-C5;  | A2-B1-C6;  | A2-B1-C7;  | A2-B1-C8;  | A2-B1-C9;  |
| A3-B1-C1;  | A3-B1-C2;  | A3-B1-C3;  | A3-B1-C4;  | A3-B1-C5;  | A3-B1-C6;  |
| A3-B1-C7;  | A3-B1-C8;  | A3-B1-C9;  | A4-B1-C1;  | A4-B1-C2;  | A4-B1-C3;  |
| A4-B1-C4;  | A4-B1-C5;  | A4-B1-C6;  | A4-B1-C7;  | A4-B1-C8;  | A4-B1-C9;  |
| A5-B1-C1;  | A5-B1-C2;  | A5-B1-C3;  | A5-B1-C4;  | A5-B1-C5;  | A5-B1-C6;  |
| A5-B1-C7;  | A5-B1-C8;  | A5-B1-C9;  | A6-B1-C1;  | A6-B1-C2;  | A6-B1-C3;  |
| A6-B1-C4;  | A6-B1-C5;  | A6-B1-C6;  | A6-B1-C7;  | A6-B1-C8;  | A6-B1-C9;  |
| A7-B1-C1;  | A7-B1-C2;  | A7-B1-C3;  | A7-B1-C4;  | A7-B1-C5;  | A7-B1-C6;  |
| A7-B1-C7;  | A7-B1-C8;  | A7-B1-C9;  | A8-B1-C1;  | A8-B1-C2;  | A8-B1-C3;  |
| A8-B1-C4;  | A8-B1-C5;  | A8-B1-C6;  | A8-B1-C7;  | A8-B1-C8;  | A8-B1-C9;  |
| A9-B1-C1;  | A9-B1-C2;  | A9-B1-C3;  | A9-B1-C4;  | A9-B1-C5;  | A9-B1-C6;  |
| A9-B1-C7;  | A9-B1-C8;  | A9-B1-C9;  | A10-B1-C1; | A10-B1-C2; | A10-B1-C3; |
| A10-B1-C4; | A10-B1-C5; | A10-B1-C6; | A10-B1-C7; | A10-B1-C8; | A10-B1-C9; |
| A11-B1-C1; | A11-B1-C2; | A11-B1-C3; | A11-B1-C4; | A11-B1-C5; | A11-B1-C6; |
| A11-B1-C7; | A11-B1-C8; | A11-B1-C9; | A12-B1-C1; | A12-B1-C2; | A12-B1-C3; |
| A12-B1-C4; | A12-B1-C5; | A12-B1-C6; | A12-B1-C7; | A12-B1-C8; | A12-B1-C9; |
| A13-B1-C1; | A13-B1-C2; | A13-B1-C3; | A13-B1-C4; | A13-B1-C5; | A13-B1-C6; |
| A13-B1-C7; | A13-B1-C8; | A13-B1-C9; | A14-B1-C1; | A14-B1-C2; | A14-B1-C3; |
| A14-B1-C4; | A14-B1-C5; | A14-B1-C6; | A14-B1-C7; | A14-B1-C8; | A14-B1-C9; |
| A15-B1-C1; | A15-B1-C2; | A15-B1-C3; | A15-B1-C4; | A15-B1-C5; | A15-B1-C6; |
| A15-B1-C7; | A15-B1-C8; | A15-B1-C9; | A16-B1-C1; | A16-B1-C2; | A16-B1-C3; |
| A16-B1-C4; | A16-B1-C5; | A16-B1-C6; | A16-B1-C7; | A16-B1-C8; | A16-B1-C9; |
| A17-B1-C1; | A17-B1-C2; | A17-B1-C3; | A17-B1-C4; | A17-B1-C5; | A17-B1-C6; |
| A17-B1-C7; | A17-B1-C8; | A17-B1-C9; | A18-B1-C1; | A18-B1-C2; | A18-B1-C3; |
| A18-B1-C4; | A18-B1-C5; | A18-B1-C6; | A18-B1-C7; | A18-B1-C8; | A18-B1-C9; |
| A19-B1-C1; | A19-B1-C2; | A19-B1-C3; | A19-B1-C4; | A19-B1-C5; | A19-B1-C6; |
| A19-B1-C7; | A19-B1-C8; | A19-B1-C9; | A20-B1-C1; | A20-B1-C2; | A20-B1-C3; |
| A20-B1-C4; | A20-B1-C5; | A20-B1-C6; | A20-B1-C7; | A20-B1-C8; | A20-B1-C9; |
| A21-B1-C1; | A21-B1-C2; | A21-B1-C3; | A21-B1-C4; | A21-B1-C5; | A21-B1-C6; |
| A21-B1-C7; | A21-B1-C8; | A21-B1-C9; | A22-B1-C1; | A22-B1-C2; | A22-B1-C3; |
| A22-B1-C4; | A22-B1-C5; | A22-B1-C6; | A22-B1-C7; | A22-B1-C8; | A22-B1-C9; |
| A23-B1-C1; | A23-B1-C2; | A23-B1-C3; | A23-B1-C4; | A23-B1-C5; | A23-B1-C6; |
| A23-B1-C7; | A23-B1-C8; | A23-B1-C9; | A24-B1-C1; | A24-B1-C2; | A24-B1-C3; |
| A24-B1-C4; | A24-B1-C5; | A24-B1-C6; | A24-B1-C7; | A24-B1-C8; | A24-B1-C9; |
| A25-B1-C1; | A25-B1-C2; | A25-B1-C3; | A25-B1-C4; | A25-B1-C5; | A25-B1-C6; |
| A25-B1-C7; | A25-B1-C8; | A25-B1-C9; | A26-B1-C1; | A26-B1-C2; | A26-B1-C3; |
| A26-B1-C4; | A26-B1-C5; | A26-B1-C6; | A26-B1-C7; | A26-B1-C8; | A26-B1-C9; |
| A27-B1-C1; | A27-B1-C2; | A27-B1-C3; | A27-B1-C4; | A27-B1-C5; | A27-B1-C6; |
| A27-B1-C7; | A27-B1-C8; | A27-B1-C9; | A28-B1-C1; | A28-B1-C2; | A28-B1-C3; |
| A28-B1-C4; | A28-B1-C5; | A28-B1-C6; | A28-B1-C7; | A28-B1-C8; | A28-B1-C9; |
| A29-B1-C1; | A29-B1-C2; | A29-B1-C3; | A29-B1-C4; | A29-B1-C5; | A29-B1-C6; |
| A29-B1-C7; | A29-B1-C8; | A29-B1-C9; | A30-B1-C1; | A30-B1-C2; | A30-B1-C3; |
| A30-B1-C4; | A30-B1-C5; | A30-B1-C6; | A30-B1-C7; | A30-B1-C8; | A30-B1-C9; |
| A31-B1-C1; | A31-B1-C2; | A31-B1-C3; | A31-B1-C4; | A31-B1-C5; | A31-B1-C6; |
| A31-B1-C7; | A31-B1-C8; | A31-B1-C9; | A32-B1-C1; | A32-B1-C2; | A32-B1-C3; |
| A32-B1-C4; | A32-B1-C5; | A32-B1-C6; | A32-B1-C7; | A32-B1-C8; | A32-B1-C9; |
| A33-B1-C1; | A33-B1-C2; | A33-B1-C3; | A33-B1-C4; | A33-B1-C5; | A33-B1-C6; |
| A33-B1-C7; | A33-B1-C8; | A33-B1-C9; | A34-B1-C1; | A34-B1-C2; | A34-B1-C3; |
| A34-B1-C4; | A34-B1-C5; | A34-B1-C6; | A34-B1-C7; | A34-B1-C8; | A34-B1-C9; |
| A35-B1-C1; | A35-B1-C2; | A35-B1-C3; | A35-B1-C4; | A35-B1-C5; | A35-B1-C6; |
| ,          | - /        | ,          | ,          | ,          | - ,        |

| A35-B1-C7; | A35-B1-C8; | A35-B1-C9; | A36-B1-C1; | A36-B1-C2; | A36-B1-C3; |
|------------|------------|------------|------------|------------|------------|
| A36-B1-C4; | A36-B1-C5; | A36-B1-C6; | A36-B1-C7; | A36-B1-C8; | A36-B1-C9; |
| A37-B1-C1; | A37-B1-C2; | A37-B1-C3; | A37-B1-C4; | A37-B1-C5; | A37-B1-C6; |
| A37-B1-C7; | A37-B1-C8; | A37-B1-C9; | A38-B1-C1; | A38-B1-C2; | A38-B1-C3; |
|            | A38-B1-C5; | A38-B1-C6; | A38-B1-C7; | A38-B1-C8; | A38-B1-C9; |
| A38-B1-C4; |            |            |            | A39-B1-C5; | A39-B1-C6; |
| A39-B1-C1; | A39-B1-C2; | A39-B1-C3; | A39-B1-C4; |            |            |
| A39-B1-C7; | A39-B1-C8; | A39-B1-C9; | A40-B1-C1; | A40-B1-C2; | A40-B1-C3; |
| A40-B1-C4; | A40-B1-C5; | A40-B1-C6; | A40-B1-C7; | A40-B1-C8; | A40-B1-C9; |
| A41-B1-C1, | A41-B1-C2; | A41-B1-C3; | A41-B1-C4; | A41-B1-C5; | A41-B1-C6; |
| A41-B1-C7; | A41-B1-C8; | A41-B1-C9; | A42-B1-C1; | A42-B1-C2; | A42-B1-C3; |
| A42-B1-C4; | A42-B1-C5; | A42-B1-C6; | A42-B1-C7; | A42-B1-C8; | A42-B1-C9; |
| A43-B1-C1; | A43-B1-C2; | A43-B1-C3; | A43-B1-C4; | A43-B1-C5; | A43-B1-C6; |
| A43-B1-C7; | A43-B1-C8; | A43-B1-C9; | A44-B1-C1; | A44-B1-C2; | A44-B1-C3; |
| A44-B1-C4; | A44-B1-C5; | A44-B1-C6; | A44-B1-C7; | A44-B1-C8; | A44-B1-C9; |
| A45-B1-C1; | A45-B1-C2; | A45-B1-C3; | A45-B1-C4; | A45-B1-C5; | A45-B1-C6; |
| A45-B1-C7; | A45-B1-C8; | A45-B1-C9; | A46-B1-C1; | A46-B1-C2; | A46-B1-C3; |
| A46-B1-C4; | A46-B1-C5; | A46-B1-C6; | A46-B1-C7; | A46-B1-C8; | A46-B1-C9; |
| A47-B1-C1; | A47-B1-C2; | A47-B1-C3; | A47-B1-C4; | A47-B1-C5; | A47-B1-C6; |
| A47-B1-C7; | A47-B1-C8; | A47-B1-C9; | A48-B1-C1; | A48-B1-C2; | A48-B1-C3; |
| A48-B1-C4; | A48-B1-C5; | A48-B1-C6; | A48-B1-C7; | A48-B1-C8; | A48-B1-C9; |
| A49-B1-C1; | A49-B1-C2; | A49-B1-C3; | A49-B1-C4; | A49-B1-C5; | A49-B1-C6; |
| A49-B1-C7; | A49-B1-C8; | A49-B1-C9; | A50-B1-C1; | A50-B1-C2; | A50-B1-C3; |
| A50-B1-C4; | A50-B1-C5; | A50-B1-C6; | A50-B1-C7; | A50-B1-C8; | A50-B1-C9; |
| A51-B1-C1; | A51-B1-C2; | A51-B1-C3; | A51-B1-C4; | A51-B1-C5; | A51-B1-C6; |
| A51-B1-C7; | A51-B1-C8; | A51-B1-C9; | A52-B1-C1; | A52-B1-C2; | A52-B1-C3; |
| A52-B1-C4; | A52-B1-C5; | A52-B1-C6; | A52-B1-C7; | A52-B1-C8; | A52-B1-C9; |
| A53-B1-C1; | A53-B1-C2; | A53-B1-C3; | A53-B1-C4; | A53-B1-C5; | A53-B1-C6; |
| A53-B1-C7; | A53-B1-C8; | A53-B1-C9; | A54-B1-C1; | A54-B1-C2; | A54-B1-C3; |
| A54-B1-C4; | A54-B1-C5; | A54-B1-C6; | A54-B1-C7; | A54-B1-C8; | A54-B1-C9; |
| A55-B1-C1; | A55-B1-C2; | A55-B1-C3; | A55-B1-C4; | A55-B1-C5; | A55-B1-C6; |
| A55-B1-C7; | A55-B1-C8; | A55-B1-C9; | A56-B1-C1; | A56-B1-C2; | A56-B1-C3; |
| A56-B1-C4; | A56-B1-C5; | A56-B1-C6; | A56-B1-C7; | A56-B1-C8; | A56-B1-C9; |
| A57-B1-C1; | A57-B1-C2; | A57-B1-C3; | A57-B1-C4; | A57-B1-C5; | A57-B1-C6; |
| A57-B1-C7; | A57-B1-C8; | A57-B1-C9; | A58-B1-C1; | A58-B1-C2; | A58-B1-C3; |
| A58-B1-C4; | A58-B1-C5; | A58-B1-C6; | A58-B1-C7; | A58-B1-C8; | A58-B1-C9; |
| A59-B1-C1; | A59-B1-C2; | A59-B1-C3; | A59-B1-C4; | A59-B1-C5; | A59-B1-C6; |
| A59-B1-C7; | A59-B1-C8; | A59-B1-C9; | A60-B1-C1; | A60-B1-C2; | A60-B1-C3; |
| A60-B1-C4; | A60-B1-C5; | A60-B1-C6; | A60-B1-C7; | A60-B1-C8; | A60-B1-C9; |
| A61-B1-C1; | A61-B1-C2; | A61-B1-C3; | A61-B1-C4; | A61-B1-C5; | A61-B1-C6; |
| A61-B1-C7; | A61-B1-C8; | A61-B1-C9; | A62-B1-C1; | A62-B1-C2; | A62-B1-C3; |
| A62-B1-C4; | A62-B1-C5; | A62-B1-C6; | A62-B1-C7; | A62-B1-C8; | A62-B1-C9; |
| A63-B1-C1; | A63-B1-C2; | A63-B1-C3; | A63-B1-C4; | A63-B1-C5; | A63-B1-C6; |
| A63-B1-C7; | A63-B1-C8; | A63-B1-C9; | A64-B1-C1; | A64-B1-C2; | A64-B1-C3; |
| A64-B1-C4; | A64-B1-C5; | A64-B1-C6; | A64-B1-C7; | A64-B1-C8; | A64-B1-C9; |
| A65-B1-C1; | A65-B1-C2; | A65-B1-C3; | A65-B1-C4; | A65-B1-C5; | A65-B1-C6; |
| A65-B1-C7; | A65-B1-C8; | A65-B1-C9; | A66-B1-C1; | A66-B1-C2; | A66-B1-C3; |
| A66-B1-C4; | A66-B1-C5; | A66-B1-C6; | A66-B1-C7; | A66-B1-C8; | A66-B1-C9; |
| A67-B1-C1; | A67-B1-C2; | A67-B1-C3; | A67-B1-C4; | A67-B1-C5; | A67-B1-C6; |
| A67-B1-C7; | A67-B1-C8; | A67-B1-C9; | A68-B1-C1; | A68-B1-C2; | A68-B1-C3; |
| A68-B1-C4; | A68-B1-C5; | A68-B1-C6; | A68-B1-C7; | A68-B1-C8; | A68-B1-C9; |
| A69-B1-C1; | A69-B1-C2; | A69-B1-C3; | A69-B1-C4; | A69-B1-C5; | A69-B1-C6; |
| A69-B1-C7; | A69-B1-C8; | A69-B1-C9; | A70-B1-C1; | A70-B1-C2; | A70-B1-C3; |
| A70-B1-C4; | A70-B1-C5; | A70-B1-C6; | A70-B1-C7; | A70-B1-C8; | A70-B1-C9; |
| A71-B1-C1; | A71-B1-C2; | A71-B1-C3; | A71-B1-C4; | A71-B1-C5; | A71-B1-C6; |
| A71-B1-C7; | A71-B1-C8; | A71-B1-C9; | A1-B2-C1;  | A1-B2-C2;  | A1-B2-C3;  |

| A1-B2-C4;  | A1-B2-C5;              | A1-B2-C6;  | A1-B2-C7;  | A1-B2-C8;  | A1-B2-C9;  |
|------------|------------------------|------------|------------|------------|------------|
| A2-B2-C1;  | A2-B2-C2;              | A2-B2-C3;  | A2-B2-C4;  | A2-B2-C5;  | A2-B2-C6;  |
| A2-B2-C7;  | A2-B2-C8;              | A2-B2-C9;  | A3-B2-C1;  | A3-B2-C2;  | A3-B2-C3;  |
| A3-B2-C4;  | A3-B2-C5;              | A3-B2-C6;  | A3-B2-C7;  | A3-B2-C8;  | A3-B2-C9;  |
| A4-B2-C1;  | A4-B2-C2;              | A4-B2-C3;  | A4-B2-C4;  | A4-B2-C5;  | A4-B2-C6;  |
| A4-B2-C7;  | A4-B2-C2;<br>A4-B2-C8; | A4-B2-C9;  | A5-B2-C1;  | A5-B2-C3;  | A5-B2-C3;  |
|            |                        |            |            |            |            |
| A5-B2-C4;  | A5-B2-C5;              | A5-B2-C6;  | A5-B2-C7;  | A5-B2-C8;  | A5-B2-C9;  |
| A6-B2-C1;  | A6-B2-C2;              | A6-B2-C3;  | A6-B2-C4;  | A6-B2-C5;  | A6-B2-C6;  |
| A6-B2-C7;  | A6-B2-C8;              | A6-B2-C9;  | A7-B2-C1;  | A7-B2-C2;  | A7-B2-C3;  |
| A7-B2-C4;  | A7-B2-C5;              | A7-B2-C6;  | A7-B2-C7;  | A7-B2-C8;  | A7-B2-C9;  |
| A8-B2-C1;  | A8-B2-C2;              | A8-B2-C3;  | A8-B2-C4;  | A8-B2-C5;  | A8-B2-C6;  |
| A8-B2-C7;  | A8-B2-C8;              | A8-B2-C9;  | A9-B2-C1;  | A9-B2-C2;  | A9-B2-C3;  |
| A9-B2-C4;  | A9-B2-C5;              | A9-B2-C6;  | A9-B2-C7;  | A9-B2-C8;  | A9-B2-C9;  |
| A10-B2-C1; | A10-B2-C2;             | A10-B2-C3; | A10-B2-C4; | A10-B2-C5; | A10-B2-C6; |
| A10-B2-C7; | A10-B2-C8;             | A10-B2-C9; | A11-B2-C1; | A11-B2-C2; | A11-B2-C3; |
| A11-B2-C4; | A11-B2-C5;             | A11-B2-C6; | A11-B2-C7; | A11-B2-C8; | A11-B2-C9; |
| A12-B2-C1; | A12-B2-C2;             | A12-B2-C3; | A12-B2-C4; | A12-B2-C5; | A12-B2-C6; |
| A12-B2-C7; | A12-B2-C8;             | A12-B2-C9; | A13-B2-C1; | A13-B2-C2; | A13-B2-C3; |
| A13-B2-C4; | A13-B2-C5;             | A13-B2-C6; | A13-B2-C7; | A13-B2-C8; | A13-B2-C9; |
| A14-B2-C1; | A14-B2-C2;             | A14-B2-C3; | A14-B2-C4; | A14-B2-C5; | A14-B2-C6; |
| A14-B2-C7; | A14-B2-C8;             | A14-B2-C9; | A15-B2-C1; | A15-B2-C2; | A15-B2-C3; |
| A15-B2-C4; | A15-B2-C5;             | A15-B2-C6; | A15-B2-C7; | A15-B2-C8; | A15-B2-C9; |
| A16-B2-C1; | A16-B2-C2;             | A16-B2-C3; | A16-B2-C4; | A16-B2-C5; | A16-B2-C6; |
| A16-B2-C7; | A16-B2-C8;             | A16-B2-C9; | A17-B2-C1; | A17-B2-C2; | A17-B2-C3; |
| A17-B2-C4; | A17-B2-C5;             | A17-B2-C6; | A17-B2-C7; | A17-B2-C8; | A17-B2-C9; |
| A18-B2-C1; | A18-B2-C2;             | A18-B2-C3; | A18-B2-C4; | A18-B2-C5; | A18-B2-C6; |
| A18-B2-C7; | A18-B2-C8;             | A18-B2-C9; | A19-B2-C1; | A19-B2-C2; | A19-B2-C3; |
| A19-B2-C4; | A19-B2-C5;             | A19-B2-C6; | A19-B2-C7; | A19-B2-C8; | A19-B2-C9; |
| A20-B2-C1; | A20-B2-C2;             | A20-B2-C3; | A20-B2-C4; | A20-B2-C5; | A20-B2-C6; |
| A20-B2-C7; | A20-B2-C8;             | A20-B2-C9; | A21-B2-C1; | A21-B2-C2; | A21-B2-C3; |
| A21-B2-C4; | A21-B2-C5;             | A21-B2-C6; | A21-B2-C7; | A21-B2-C8; | A21-B2-C9; |
| A22-B2-C1; | A22-B2-C2;             | A22-B2-C3; | A22-B2-C4; | A22-B2-C5; | A22-B2-C6; |
| A22-B2-C7; | A22-B2-C8;             | A22-B2-C9; | A23-B2-C1; | A23-B2-C2; | A23-B2-C3; |
| A23-B2-C4; | A23-B2-C5;             | A23-B2-C6; | A23-B2-C7; | A23-B2-C8; | A23-B2-C9; |
| A24-B2-C1; | A24-B2-C2;             | A24-B2-C3; | A24-B2-C4; | A24-B2-C5; | A24-B2-C6; |
| A24-B2-C7; | A24-B2-C8;             | A24-B2-C9; | A25-B2-C1; | A25-B2-C2; | A25-B2-C3; |
| A25-B2-C4; | A25-B2-C5;             | A25-B2-C6; | A25-B2-C7; | A25-B2-C8; | A25-B2-C9; |
| A26-B2-C1; | A26-B2-C2;             | A26-B2-C3; | A26-B2-C4; | A26-B2-C5; | A26-B2-C6; |
| A26-B2-C7; | A26-B2-C8;             | A26-B2-C9; | A27-B2-C1; | A27-B2-C2; | A27-B2-C3; |
| A27-B2-C4; | A27-B2-C5;             | A27-B2-C6; | A27-B2-C7; | A27-B2-C8; | A27-B2-C9; |
| A28-B2-C1; | A28-B2-C2;             | A28-B2-C3; | A28-B2-C4; | A28-B2-C5; | A28-B2-C6; |
| A28-B2-C7; | A28-B2-C8;             | A28-B2-C9; | A29-B2-C1; | A29-B2-C2; | A29-B2-C3; |
| A29-B2-C4; | A29-B2-C5;             | A29-B2-C6; | A29-B2-C7; | A29-B2-C8; | A29-B2-C9; |
| A30-B2-C1; | A30-B2-C2;             | A30-B2-C3; | A30-B2-C4; | A30-B2-C5; | A30-B2-C6; |
| A30-B2-C7; | A30-B2-C8;             | A30-B2-C9; | A31-B2-C1; | A31-B2-C2; | A31-B2-C3; |
| A31-B2-C4; | A31-B2-C5;             | A31-B2-C6; | A31-B2-C7; | A31-B2-C8; | A31-B2-C9; |
| A32-B2-C1; | A32-B2-C2;             | A32-B2-C3; | A32-B2-C4; | A32-B2-C5; | A32-B2-C6; |
| A32-B2-C7; | A32-B2-C8;             | A32-B2-C9; | A33-B2-C1; | A33-B2-C2; | A33-B2-C3; |
| A33-B2-C4; | A33-B2-C5;             | A33-B2-C6; | A33-B2-C7; | A33-B2-C8; | A33-B2-C9; |
| A34-B2-C1; | A34-B2-C2;             | A34-B2-C3; | A34-B2-C4; | A34-B2-C5; | A34-B2-C6; |
| A34-B2-C7; | A34-B2-C8;             | A34-B2-C9; | A35-B2-C1; | A35-B2-C2; | A35-B2-C3; |
| A35-B2-C4; | A35-B2-C5;             | A35-B2-C6; | A35-B2-C7; | A35-B2-C8; | A35-B2-C9; |
| A36-B2-C1; | A36-B2-C2;             | A36-B2-C3; | A36-B2-C4; | A36-B2-C5; | A36-B2-C6; |
| A36-B2-C7; | A36-B2-C8;             | A36-B2-C9; | A37-B2-C1; | A37-B2-C2; | A37-B2-C3; |
| A37-B2-C4; | A37-B2-C5;             | A37-B2-C6; | A37-B2-C7; | A37-B2-C8; | A37-B2-C9; |

| A38-B2-C1; | A38-B2-C2; | A38-B2-C3; | A38-B2-C4; | A38-B2-C5; | A38-B2-C6; |
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| A38-B2-C7; | A38-B2-C8; | A38-B2-C9; | A39-B2-C1; | A39-B2-C2; | A39-B2-C3; |
| A39-B2-C4; | A39-B2-C5; | A39-B2-C6; | A39-B2-C7; | A39-B2-C8; | A39-B2-C9; |
| A40-B2-C1; | A40-B2-C2; | A40-B2-C3; | A40-B2-C4; | A40-B2-C5; | A40-B2-C6; |
| A40-B2-C7; | A40-B2-C8; | A40-B2-C9; | A41-B2-C1; | A41-B2-C2; | A41-B2-C3; |
| A41-B2-C4; | A41-B2-C5; | A41-B2-C6; | A41-B2-C7; | A41-B2-C8; | A41-B2-C9; |
| A42-B2-C1; | A42-B2-C2; | A42-B2-C3; | A42-B2-C4; | A42-B2-C5; | A42-B2-C6; |
| A42-B2-C7; | A42-B2-C8; | A42-B2-C9; | A43-B2-C1; | A43-B2-C2; | A43-B2-C3; |
| A43-B2-C4; | A43-B2-C5; | A43-B2-C6; | A43-B2-C7; | A43-B2-C8; | A43-B2-C9; |
| A44-B2-C1; | A44-B2-C2; | A44-B2-C3; | A44-B2-C4; | A44-B2-C5; | A44-B2-C6; |
| A44-B2-C7; | A44-B2-C8; | A44-B2-C9; | A45-B2-C1; | A45-B2-C2; | A45-B2-C3; |
| A45-B2-C4; | A45-B2-C5; | A45-B2-C6; | A45-B2-C7; | A45-B2-C8; | A45-B2-C9; |
| A46-B2-C1; | A46-B2-C2; | A46-B2-C3; | A46-B2-C4; | A46-B2-C5; | A46-B2-C6; |
| A46-B2-C7; | A46-B2-C8; | A46-B2-C9; | A47-B2-C1; | A47-B2-C2; | A47-B2-C3; |
| A47-B2-C4; | A47-B2-C5; | A47-B2-C6; | A47-B2-C7; | A47-B2-C8; | A47-B2-C9; |
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| A48-B2-C7; | A48-B2-C8; | A48-B2-C9; | A49-B2-C1; | A49-B2-C2; | A49-B2-C3; |
| A49-B2-C4; | A49-B2-C5; | A49-B2-C6; | A49-B2-C7; | A49-B2-C8; | A49-B2-C9; |
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| A50-B2-C7; | A50-B2-C8; | A50-B2-C9; | A51-B2-C1; | A51-B2-C2; | A51-B2-C3; |
| A51-B2-C4; | A51-B2-C5; | A51-B2-C6; | A51-B2-C7; | A51-B2-C8; | A51-B2-C9; |
| A52-B2-C1; | A52-B2-C2; | A52-B2-C3; | A52-B2-C4; | A52-B2-C5; | A52-B2-C6; |
| A52-B2-C7; | A52-B2-C8; | A52-B2-C9; | A53-B2-C1; | A53-B2-C2; | A53-B2-C3; |
| A53-B2-C4; | A53-B2-C5; | A53-B2-C6; | A53-B2-C7; | A53-B2-C8; | A53-B2-C9; |
| A54-B2-C1; | A54-B2-C2; | A54-B2-C3; | A54-B2-C4; | A54-B2-C5; | A54-B2-C6; |
| A54-B2-C7; | A54-B2-C8; | A54-B2-C9; | A55-B2-C1; | A55-B2-C2; | A55-B2-C3; |
| A55-B2-C4; | A55-B2-C5; | A55-B2-C6; | A55-B2-C7; | A55-B2-C8; | A55-B2-C9; |
| A56-B2-C1; | A56-B2-C2; | A56-B2-C3; | A56-B2-C4; | A56-B2-C5; | A56-B2-C6; |
| A56-B2-C7; | A56-B2-C8; | A56-B2-C9; | A57-B2-C1; | A57-B2-C2; | A57-B2-C3; |
| A57-B2-C4; | A57-B2-C5; | A57-B2-C6; | A57-B2-C7; | A57-B2-C8; | A57-B2-C9; |
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| A58-B2-C7; | A58-B2-C8; | A58-B2-C9; | A59-B2-C1; | A59-B2-C2; | A59-B2-C3; |
| A59-B2-C4; | A59-B2-C5; | A59-B2-C6; | A59-B2-C7; | A59-B2-C8; | A59-B2-C9; |
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| A60-B2-C7; | A60-B2-C8; | A60-B2-C9; | A61-B2-C1; | A61-B2-C2; | A61-B2-C3; |
| A61-B2-C4; | A61-B2-C5; | A61-B2-C6; | A61-B2-C7; | A61-B2-C8; | A61-B2-C9; |
| A62-B2-C1; | A62-B2-C2; | A62-B2-C3; | A62-B2-C4; | A62-B2-C5; | A62-B2-C6; |
| A62-B2-C7; | A62-B2-C8; | A62-B2-C9; | A63-B2-C1; | A63-B2-C2; | A63-B2-C3; |
| A63-B2-C4; | A63-B2-C5; | A63-B2-C6; | A63-B2-C7; | A63-B2-C8; | A63-B2-C9; |
| A64-B2-C1; | A64-B2-C2; | A64-B2-C3; | A64-B2-C4; | A64-B2-C5; | A64-B2-C6; |
| A64-B2-C7; | A64-B2-C8; | A64-B2-C9; | A65-B2-C1; | A65-B2-C2; | A65-B2-C3; |
| A65-B2-C4; | A65-B2-C5; | A65-B2-C6; | A65-B2-C7; | A65-B2-C8; | A65-B2-C9; |
| A66-B2-C1; | A66-B2-C2; | A66-B2-C3; | A66-B2-C4; | A66-B2-C5; | A66-B2-C6; |
| A66-B2-C7; | A66-B2-C8; | A66-B2-C9; | A67-B2-C1; | A67-B2-C2; | A67-B2-C3; |
| A67-B2-C4; | A67-B2-C5; | A67-B2-C6; | A67-B2-C7; | A67-B2-C8; | A67-B2-C9; |
| A68-B2-C1; | A68-B2-C2; | A68-B2-C3; | A68-B2-C4; | A68-B2-C5; | A68-B2-C6; |
| A68-B2-C7; | A68-B2-C8; | A68-B2-C9; | A69-B2-C1; | A69-B2-C2; | A69-B2-C3; |
| A69-B2-C4; | A69-B2-C5; | A69-B2-C6; | A69-B2-C7; | A69-B2-C8; | A69-B2-C9; |
| A70-B2-C1; | A70-B2-C2; | A70-B2-C3; | A70-B2-C4; | A70-B2-C5; | A70-B2-C6; |
| A70-B2-C7; | A70-B2-C8; | A70-B2-C9; | A71-B2-C1; | A71-B2-C2; | A71-B2-C3; |
| A71-B2-C4; | A71-B2-C5; | A71-B2-C6; | A71-B2-C7; | A71-B2-C8; | A71-B2-C9; |
| A1-B3-C1;  | A1-B3-C2;  | A1-B3-C3;  | A1-B3-C4;  | A1-B3-C5;  | A1-B3-C6;  |
| A1-B3-C7;  | A1-B3-C8;  | A1-B3-C9;  | A2-B3-C1;  | A2-B3-C2;  | A2-B3-C3;  |
| A2-B3-C4;  | A2-B3-C5;  | A2-B3-C6;  | A2-B3-C7;  | A2-B3-C8;  | A2-B3-C9;  |
| A3-B3-C1;  | A3-B3-C2;  | A3-B3-C3;  | A3-B3-C4;  | A3-B3-C5;  | A3-B3-C6;  |

| A3-B3-C7;                | A3-B3-C8;                | A3-B3-C9;                | A4-B3-C1;                | A4-B3-C2;                | A4-B3-C3;                |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A4-B3-C4;                | A4-B3-C5;                | A4-B3-C6;                | A4-B3-C7;                | A4-B3-C8;                | A4-B3-C9;                |
| A5-B3-C1;                | A5-B3-C2;                | A5-B3-C3;                | A5-B3-C4;                | A5-B3-C5;                | A5-B3-C6;                |
| A5-B3-C7;                | A5-B3-C8;                | A5-B3-C9;                | A6-B3-C1;                | A6-B3-C2;                | A6-B3-C3;                |
| A6-B3-C4;                | A6-B3-C5;                | A6-B3-C6;                | A6-B3-C7;                | A6-B3-C8;                | A6-B3-C9;                |
| A7-B3-C1;                | A7-B3-C2;                | A7-B3-C3;                | A7-B3-C4;                | A7-B3-C5;                | A7-B3-C6;                |
| A7-B3-C7;                | A7-B3-C8;                | A7-B3-C9;                | A8-B3-C1;                | A8-B3-C2;                | A8-B3-C3;                |
| A8-B3-C4;                | A8-B3-C5;                | A8-B3-C6;                | A8-B3-C7;                | A8-B3-C8;                | A8-B3-C9;                |
| A9-B3-C1;                | A9-B3-C2;                | A9-B3-C3;                | A9-B3-C4;                | A9-B3-C5;                | A9-B3-C6;                |
| A9-B3-C7;                | A9-B3-C8;                | A9-B3-C9;                | A10-B3-C1;               | A10-B3-C2;               | A10-B3-C3;               |
| A10-B3-C4;               | A10-B3-C5;               | A10-B3-C6;               | A10-B3-C7;               | A10-B3-C8;               | A10-B3-C9;               |
| A11-B3-C1;               | A11-B3-C2                | A11-B3-C3;               | A11-B3-C4;               | A11-B3-C5;               | A11-B3-C6;               |
| A11-B3-C7;               | A11-B3-C8;               | A11-B3-C9;               | A12-B3-C1;               | A12-B3-C2;               | A12-B3-C3;               |
| A12-B3-C4;               | A12-B3-C5;               | A12-B3-C6;               | A12-B3-C7;               | A12-B3-C8;               | A12-B3-C9;               |
| A13-B3-C1;               | A13-B3-C2;               | A13-B3-C3;               | A13-B3-C4;               | A13-B3-C5;               | A13-B3-C6;               |
| A13-B3-C7;               | A13-B3-C2;               | A13-B3-C9;               | A14-B3-C1;               | A14-B3-C2;               | A14-B3-C3;               |
| A14-B3-C4;               | A14-B3-C5;               | A14-B3-C6;               | A14-B3-C7;               | A14-B3-C8;               | A14-B3-C9;               |
| A15-B3-C1;               | A15-B3-C2;               | A15-B3-C3;               | A15-B3-C4;               | A15-B3-C5;               | A15-B3-C6;               |
| A15-B3-C7;               | A15-B3-C2;<br>A15-B3-C8; | A15-B3-C9;               | A16-B3-C1;               | A16-B3-C2;               | A16-B3-C3;               |
| A16-B3-C4;               | A16-B3-C5;               | A16-B3-C6;               | A16-B3-C7;               | A16-B3-C8;               | A16-B3-C9;               |
|                          | A17-B3-C2;               | A17-B3-C3;               | A17-B3-C4;               | A17-B3-C5;               | A17-B3-C6;               |
| A17-B3-C1;<br>A17-B3-C7; | A17-B3-C2;<br>A17-B3-C8; | A17-B3-C3;               | A18-B3-C1;               | A18-B3-C2;               | A17-B3-C0;               |
|                          | A17-B3-C8;<br>A18-B3-C5; | A18-B3-C6;               | A18-B3-C7;               | A18-B3-C8;               | A18-B3-C9;               |
| A18-B3-C4;<br>A19-B3-C1; | A19-B3-C3;               | A19-B3-C3;               | A19-B3-C4;               | A19-B3-C5;               | A19-B3-C6;               |
|                          |                          |                          |                          |                          | A20-B3-C3;               |
| A19-B3-C7;               | A19-B3-C8;               | A19-B3-C9;               | A20-B3-C1;               | A20-B3-C2;               |                          |
| A20-B3-C4;               | A20-B3-C5;               | A20-B3-C6;               | A20-B3-C7;               | A20-B3-C8;<br>A21-B3-C5; | A20-B3-C9;<br>A21-B3-C6; |
| A21-B3-C1;               | A21-B3-C2;<br>A21-B3-C8; | A21-B3-C3;<br>A21-B3-C9; | A21-B3-C4;<br>A22-B3-C1; | A21-B3-C3;<br>A22-B3-C2; | A21-B3-C0,<br>A22-B3-C3; |
| A21-B3-C7;               |                          |                          |                          | A22-B3-C2;<br>A22-B3-C8; | A22-B3-C9;               |
| A22-B3-C4;               | A22-B3-C5;<br>A23-B3-C2; | A22-B3-C6;<br>A23-B3-C3; | A22-B3-C7;<br>A23-B3-C4; | A23-B3-C5;               | A23-B3-C6;               |
| A23-B3-C1;<br>A23-B3-C7; | A23-B3-C2;<br>A23-B3-C8; | A23-B3-C9;               | A24-B3-C1;               | A24-B3-C2;               | A24-B3-C3;               |
| A24-B3-C4;               | A24-B3-C5;               | A24-B3-C6;               | A24-B3-C1;               | A24-B3-C8;               | A24-B3-C9;               |
| A25-B3-C1;               | A25-B3-C3;               | A25-B3-C3;               | A25-B3-C4;               | A25-B3-C5;               | A25-B3-C6;               |
| A25-B3-C1;<br>A25-B3-C7; | A25-B3-C2;<br>A25-B3-C8; | A25-B3-C9;               | A26-B3-C1;               | A26-B3-C2;               | A26-B3-C3;               |
| A26-B3-C4;               | A26-B3-C5;               | A26-B3-C6;               | A26-B3-C7;               | A26-B3-C8;               | A26-B3-C9;               |
| A20-B3-C4;<br>A27-B3-C1; | A20-B3-C3;<br>A27-B3-C2; | A20-B3-C0;<br>A27-B3-C3; | A27-B3-C4;               | A20-B3-C5;               | A27-B3-C6;               |
| A27-B3-C1;<br>A27-B3-C7; | A27-B3-C2;<br>A27-B3-C8; | A27-B3-C9;               | A28-B3-C1;               | A28-B3-C2;               | A28-B3-C3;               |
| A28-B3-C4;               | A28-B3-C5;               | A28-B3-C6;               | A28-B3-C7;               | A28-B3-C8;               | A28-B3-C9;               |
| A29-B3-C1;               | A29-B3-C2;               | A29-B3-C3;               | A29-B3-C4;               | A29-B3-C5;               | A29-B3-C6;               |
| A29-B3-C7;               | A29-B3-C2;<br>A29-B3-C8; | A29-B3-C9;               | A30-B3-C1;               | A30-B3-C2;               | A30-B3-C3;               |
| A30-B3-C4;               | A30-B3-C5;               | A30-B3-C6;               | A30-B3-C7;               | A30-B3-C8;               | A30-B3-C9;               |
| A31-B3-C1;               | A31-B3-C2;               | A31-B3-C3;               | A31-B3-C4;               | A31-B3-C5;               | A31-B3-C6;               |
| A31-B3-C7;               | A31-B3-C8;               | A31-B3-C9;               | A32-B3-C1;               | A32-B3-C2;               | A32-B3-C3;               |
| A32-B3-C4;               | A32-B3-C5;               | A32-B3-C6;               | A32-B3-C7;               | A32-B3-C8;               | A32-B3-C9;               |
| A33-B3-C1;               | A33-B3-C2;               | A33-B3-C3;               | A33-B3-C4;               | A33-B3-C5;               | A33-B3-C6;               |
| A33-B3-C7;               | A33-B3-C8;               | A33-B3-C9;               | A34-B3-C1;               | A34-B3-C2;               | A34-B3-C3;               |
| A34-B3-C4;               | A34-B3-C5;               | A34-B3-C6;               | A34-B3-C7;               | A34-B3-C8;               | A34-B3-C9;               |
| A35-B3-C1;               | A35-B3-C2;               | A35-B3-C3;               | A35-B3-C4;               | A35-B3-C5;               | A35-B3-C6;               |
| A35-B3-C7;               | A35-B3-C2;<br>A35-B3-C8; | A35-B3-C9;               | A36-B3-C1;               | A36-B3-C2;               | A36-B3-C3;               |
| A36-B3-C4;               | A36-B3-C5;               | A36-B3-C6;               | A36-B3-C7;               | A36-B3-C8;               | A36-B3-C9;               |
| A30-B3-C4;<br>A37-B3-C1; | A37-B3-C2;               | A37-B3-C3;               | A30-B3-C7;<br>A37-B3-C4; | A30-B3-C6;<br>A37-B3-C5; | A30-B3-C9;<br>A37-B3-C6; |
| A37-B3-C1;<br>A37-B3-C7; | A37-B3-C2;<br>A37-B3-C8; | A37-B3-C3;<br>A37-B3-C9; | A37-B3-C4;<br>A38-B3-C1; | A37-B3-C3;<br>A38-B3-C2; | A38-B3-C3;               |
| A37-B3-C7;<br>A38-B3-C4; | A37-B3-C6;<br>A38-B3-C5; | A37-B3-C9;<br>A38-B3-C6; | A38-B3-C1;               | A38-B3-C2;<br>A38-B3-C8; | A38-B3-C3;               |
| A39-B3-C1;               | A39-B3-C3;               | A39-B3-C3;               | A39-B3-C4;               | A39-B3-C5;               | A39-B3-C6;               |
| A39-B3-C1;               | A39-B3-C2;<br>A39-B3-C8; | A39-B3-C3;               | A39-B3-C4;<br>A40-B3-C1; | A39-B3-C3;               | A40-B3-C3;               |
| л <i>эг</i> рэ-с/,       | 103-D3-C0,               | 1337-D3-C3,              | A40-D3-C1,               | ハサロンンして                  | л <del>чо-</del> рэ-сэ,  |

| A40-B3-C4;               | A40-B3-C5;               | A40-B3-C6;               | A40-B3-C7;               | A40-B3-C8;               | A40-B3-C9;               |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A41-B3-C1;               | A41-B3-C2;               | A41-B3-C3;               | A41-B3-C4;               | A41-B3-C5;               | A41-B3-C6;               |
| A41-B3-C7;               | A41-B3-C8;               | A41-B3-C9;               | A42-B3-C1;               | A42-B3-C2;               | A42-B3-C3;               |
| A42-B3-C4;               | A42-B3-C5;               | A42-B3-C6;               | A42-B3-C7;               | A42-B3-C8;               | A42-B3-C9;               |
| A43-B3-C1;               | A43-B3-C2;               | A43-B3-C3;               | A43-B3-C4;               | A43-B3-C5;               | A43-B3-C6;               |
| A43-B3-C7;               | A43-B3-C8;               | A43-B3-C9;               | A44-B3-C1;               | A44-B3-C2;               | A44-B3-C3;               |
| A44-B3-C4;               | A44-B3-C5;               | A44-B3-C6;               | A44-B3-C7;               | A44-B3-C8;               | A44-B3-C9;               |
| A45-B3-C1;               | A45-B3-C2;               | A45-B3-C3;               | A45-B3-C4;               | A45-B3-C5;               | A45-B3-C6;               |
| A45-B3-C7;               | A45-B3-C8;               | A45-B3-C9;               | A46-B3-C1;               | A46-B3-C2;               | A46-B3-C3;               |
| A46-B3-C4;               | A46-B3-C5;               | A46-B3-C6;               | A46-B3-C7;               | A46-B3-C8;               | A46-B3-C9;               |
| A47-B3-C1;               | A47-B3-C2;               | A47-B3-C3;               | A47-B3-C4;               | A47-B3-C5;               | A47-B3-C6;               |
| A47-B3-C7;               | A47-B3-C8;               | A47-B3-C9;               | A48-B3-C1;               | A48-B3-C2;               | A48-B3-C3;               |
| A48-B3-C4;               | A48-B3-C5;               | A48-B3-C6;               | A48-B3-C7;               | A48-B3-C8;               | A48-B3-C9;               |
| A49-B3-C1;               | A49-B3-C2;               | A49-B3-C3;               | A49-B3-C4;               | A49-B3-C5;               | A49-B3-C6;               |
| A49-B3-C7;               | A49-B3-C8;               | A49-B3-C9;               | A50-B3-C1;               | A50-B3-C2;               | A50-B3-C3;               |
| A50-B3-C4;               | A50-B3-C5;               | A50-B3-C6;               | A50-B3-C7;               | A50-B3-C8;               | A50-B3-C9;               |
| A51-B3-C1;               | A51-B3-C2;               | A51-B3-C3;               | A51-B3-C4;               | A51-B3-C5;               | A51-B3-C6;               |
| A51-B3-C7;               | A51-B3-C8;               | A51-B3-C9;               | A52-B3-C1;               | A52-B3-C2;               | A52-B3-C3;               |
| A52-B3-C4;               | A52-B3-C5;               | A52-B3-C6;               | A52-B3-C7;               | A52-B3-C8;               | A52-B3-C9;               |
| A53-B3-C1;               | A53-B3-C2;               | A53-B3-C3;               | A53-B3-C4;               | A53-B3-C5;               | A53-B3-C6;               |
| A53-B3-C7;               | A53-B3-C8;               | A53-B3-C9;               | A54-B3-C1;               | A54-B3-C2;               | A54-B3-C3;               |
| A54-B3-C4;               | A54-B3-C5;               | A54-B3-C6;               | A54-B3-C7;               | A54-B3-C8;               | A54-B3-C9;               |
| A55-B3-C1;               | A55-B3-C2;               | A55-B3-C3;               | A55-B3-C4;               | A55-B3-C5;               | A55-B3-C6;               |
| A55-B3-C7;               | A55-B3-C8;               | A55-B3-C9;               | A56-B3-C1;               | A56-B3-C2;               | A56-B3-C3;               |
| A56-B3-C4;               | A56-B3-C5;               | A56-B3-C6;               | A56-B3-C7;               | A56-B3-C8;               | A56-B3-C9;               |
| A57-B3-C1;               | A57-B3-C2;               | A57-B3-C3;               | A57-B3-C4;               | A57-B3-C5;               | A57-B3-C6;               |
| A57-B3-C7;               | A57-B3-C8;               | A57-B3-C9;               | A58-B3-C1;               | A58-B3-C2;               | A58-B3-C3;               |
| A58-B3-C4;               | A58-B3-C5;               | A58-B3-C6;               | A58-B3-C7;               | A58-B3-C8;               | A58-B3-C9;               |
| A59-B3-C1;               | A59-B3-C2;               | A59-B3-C3;               | A59-B3-C4;               | A59-B3-C5;               | A59-B3-C6;               |
| A59-B3-C7;               | A59-B3-C8;               | A59-B3-C9;               | A60-B3-C1;               | A60-B3-C2;               | A60-B3-C3;               |
| A60-B3-C4;               | A60-B3-C5;               | A60-B3-C6;               | A60-B3-C7;               | A60-B3-C8;               | A60-B3-C9;               |
| A61-B3-C1;               | A61-B3-C2;               | A61-B3-C3;               | A61-B3-C4;               | A61-B3-C5;               | A61-B3-C6;               |
| A61-B3-C7;               | A61-B3-C8;               | A61-B3-C9;               | A62-B3-C1;               | A62-B3-C2;               | A62-B3-C3;               |
| A62-B3-C4;               | A62-B3-C5;<br>A63-B3-C2; | A62-B3-C6;               | A62-B3-C7;               | A62-B3-C8;<br>A63-B3-C5; | A62-B3-C9;<br>A63-B3-C6; |
| A63-B3-C1;<br>A63-B3-C7; |                          | A63-B3-C3;               | A63-B3-C4;               |                          |                          |
|                          | A63-B3-C8;               | A63-B3-C9;               | A64-B3-C1;               | A64-B3-C2;               | A64-B3-C3;               |
| A64-B3-C4;<br>A65-B3-C1; | A64-B3-C5;<br>A65-B3-C2: | A64-B3-C6;<br>A65-B3-C3; | A64-B3-C7;<br>A65-B3-C4; | A64-B3-C8;<br>A65-B3-C5; | A64-B3-C9;<br>A65-B3-C6; |
| A65-B3-C7;               | A65-B3-C8;               | A65-B3-C9;               | A66-B3-C1;               | A66-B3-C2;               | A66-B3-C3;               |
| A66-B3-C4;               | A66-B3-C5;               | A66-B3-C6;               | A66-B3-C7;               | A66-B3-C8;               | A66-B3-C9:               |
| A67-B3-C1;               | A67-B3-C2;               | A67-B3-C3;               | A67-B3-C4;               | A67-B3-C5;               | A67-B3-C6;               |
| A67-B3-C7;               | A67-B3-C8;               | A67-B3-C9;               | A68-B3-C1;               | A68-B3-C2;               | A68-B3-C3;               |
| A68-B3-C4;               | A68-B3-C5;               | A68-B3-C6;               | A68-B3-C7;               | A68-B3-C8;               | A68-B3-C9;               |
| A69-B3-C1;               | A69-B3-C2;               | A69-B3-C3;               | A69-B3-C4;               | A69-B3-C5;               | A69-B3-C6;               |
| A69-B3-C7;               | A69-B3-C8;               | A69-B3-C9;               | A70-B3-C1;               | A70-B3-C2;               | A70-B3-C3;               |
| A70-B3-C4;               | A70-B3-C5;               | A70-B3-C6;               | A70-B3-C7;               | A70-B3-C8;               | A70-B3-C9;               |
| A71-B3-C1;               | A71-B3-C2;               | A71-B3-C3;               | A71-B3-C4;               | A71-B3-C5;               | A71-B3-C6;               |
| A71-B3-C7;               | A71-B3-C8;               | A71-B3-C9;               | A1-B4-C1;                | A1-B4-C2;                | A1-B4-C3;                |
| A1-B4-C4;                | A1-B4-C5;                | A1-B4-C6;                | A1-B4-C7;                | A1-B4-C8;                | A1-B4-C9;                |
| A2-B4-C1;                | A2-B4-C2;                | A2-B4-C3;                | A2-B4-C4;                | A2-B4-C5;                | A2-B4-C6;                |
| A2-B4-C7;                | A2-B4-C8;                | A2-B4-C9;                | A3-B4-C1;                | A3-B4-C2;                | A3-B4-C3;                |
| A3-B4-C4;                | A3-B4-C5;                | A3-B4-C6;                | A3-B4-C7;                | A3-B4-C8;                | A3-B4-C9;                |
| A4-B4-C1;                | A4-B4-C2;                | A4-B4-C3;                | A4-B4-C4;                | A4-B4-C5;                | A4-B4-C6;                |
| A4-B4-C7;                | A4-B4-C8;                | A4-B4-C9;                | A5-B4-C1;                | A5-B4-C2;                | A5-B4-C3;                |
| A5-B4-C4;                | A5-B4-C5;                | A5-B4-C6;                | A5-B4-C7;                | A5-B4-C8;                | A5-B4-C9;                |
|                          |                          |                          |                          |                          |                          |

| A6-B4-C1;  | A6-B4-C2;  | A6-B4-C3;  | A6-B4-C4;  | A6-B4-C5;  | A6-B4-C6;   |
|------------|------------|------------|------------|------------|-------------|
| A6-B4-C7;  | A6-B4-C8;  | A6-B4-C9;  | A7-B4-C1;  | A7-B4-C2;  | A7-B4-C3;   |
| A7-B4-C4;  | A7-B4-C5;  | A7-B4-C6;  | A7-B4-C7;  | A7-B4-C8;  | A7-B4-C9;   |
| A8-B4-C1;  | A8-B4-C2;  | A8-B4-C3;  | A8-B4-C4;  | A8-B4-C5;  | A8-B4-C6;   |
|            | A8-B4-C8;  | A8-B4-C9;  | A9-B4-C1;  | A9-B4-C2;  | A9-B4-C3;   |
| A8-B4-C7;  |            | A9-B4-C6;  | A9-B4-C7;  | A9-B4-C8;  | A9-B4-C9;   |
| A9-B4-C4;  | A9-B4-C5;  | A10-B4-C3; | A10-B4-C4; | A10-B4-C5; | A10-B4-C6;  |
| A10-B4-C1; | A10-B4-C2; |            | A11-B4-C1; | A11-B4-C2; | A11-B4-C3;  |
| A10-B4-C7; | A10-B4-C8; | A10-B4-C9; |            | A11-B4-C8; | A11-B4-C9;  |
| A11-B4-C4; | A11-B4-C5; | A11-B4-C6; | A11-B4-C7; | A11-B4-C5; | A12-B4-C6;  |
| A12-B4-C1; | A12-B4-C2; | A12-B4-C3; | A12-B4-C4; |            | A13-B4-C3;  |
| A12-B4-C7; | A12-B4-C8; | A12-B4-C9; | A13-B4-C1; | A13-B4-C2; |             |
| A13-B4-C4; | A13-B4-C5; | A13-B4-C6; | A13-B4-C7; | A13-B4-C8; | A13-B4-C9;  |
| A14-B4-C1; | A14-B4-C2; | A14-B4-C3; | A14-B4-C4; | A14-B4-C5; | A14-B4-C6;  |
| A14-B4-C7; | A14-B4-C8; | A14-B4-C9; | A15-B4-C1; | A15-B4-C2; | A15-B4-C3;  |
| A15-B4-C4; | A15-B4-C5; | A15-B4-C6; | A15-B4-C7; | A15-B4-C8; | A15-B4-C9;  |
| A16-B4-C1; | A16-B4-C2; | A16-B4-C3; | A16-B4-C4; | A16-B4-C5; | A16-B4-C6;  |
| A16-B4-C7; | A16-B4-C8; | A16-B4-C9; | A17-B4-C1; | A17-B4-C2; | A17-B4-C3;  |
| A17-B4-C4; | A17-B4-C5; | A17-B4-C6; | A17-B4-C7; | A17-B4-C8; | A17-B4-C9;  |
| A18-B4-C1; | A18-B4-C2; | A18-B4-C3; | A18-B4-C4; | A18-B4-C5; | A18-B4-C6;  |
| A18-B4-C7; | A18-B4-C8; | A18-B4-C9; | A19-B4-C1; | A19-B4-C2; | A19-B4-C3;  |
| A19-B4-C4; | A19-B4-C5; | A19-B4-C6; | A19-B4-C/; | A19-B4-C8; | A19-B4-C9;  |
| A20-B4-C1; | A20-B4-C2; | A20-B4-C3; | A20-B4-C4; | A20-B4-C5; | A20-B4-C6;  |
| A20-B4-C7; | A20-B4-C8; | A20-B4-C9; | A21-B4-C1; | A21-B4-C2; | A21-B4-C3;  |
| A21-B4-C4; | A21-B4-C5; | A21-B4-C6; | A21-B4-C7; | A21-B4-C8; | A21-B4-C9;  |
| A22-B4-C1; | A22-B4-C2; | A22-B4-C3; | A22-B4-C4; | A22-B4-C5; | A22-B4-C6;  |
| A22-B4-C7; | A22-B4-C8; | A22-B4-C9; | A23-B4-C1; | A23-B4-C2; | A23-B4-C3;  |
| A23-B4-C4; | A23-B4-C5; | A23-B4-C6; | A23-B4-C7; | A23-B4-C8; | A23-B4-C9;  |
| A24-B4-C1; | A24-B4-C2; | A24-B4-C3; | A24-B4-C4; | A24-B4-C5; | A24-B4-C6;  |
| A24-B4-C7; | A24-B4-C8; | A24-B4-C9; | A25-B4-C1; | A25-B4-C2; | A25-B4-C3;  |
| A25-B4-C4; | A25-B4-C5; | A25-B4-C6; | A25-B4-C7; | A25-B4-C8; | A25-B4-C9;  |
| A26-B4-C1; | A26-B4-C2; | A26-B4-C3; | A26-B4-C4; | A26-B4-C5; | A26-B4-C6;  |
| A26-B4-C7; | A26-B4-C8; | A26-B4-C9; | A27-B4-C1; | A27-B4-C2; | A27-B4-C3;  |
| A27-B4-C4; | A27-B4-C5; | A27-B4-C6; | A27-B4-C7; | A27-B4-C8; | A27-B4-C9;  |
| A28-B4-C1; | A28-B4-C2; | A28-B4-C3; | A28-B4-C4; | A28-B4-C5; | A28-B4-C6;  |
| A28-B4-C7; | A28-B4-C8; | A28-B4-C9; | A29-B4-C1; | A29-B4-C2; | A29-B4-C3;  |
| A29-B4-C4; | A29-B4-C5; | A29-B4-C6; | A29-B4-C7; | A29-B4-C8; | A29-B4-C9;  |
| A30-B4-C1; | A30-B4-C2; | A30-B4-C3; | A30-B4-C4; | A30-B4-C5; | A30-B4-C6;  |
| A30-B4-C7; | A30-B4-C8; | A30-B4-C9; | A31-B4-C1; | A31-B4-C2; | A31-B4-C3;  |
| A31-B4-C4; | A31-B4-C5; | A31-B4-C6; | A31-B4-C7; | A31-B4-C8; | A31-B4-C9;  |
| A32-B4-C1; | A32-B4-C2; | A32-B4-C3; | A32-B4-C4; | A32-B4-C5; | A32-B4-C6;  |
| A32-B4-C7; | A32-B4-C8; | A32-B4-C9; | A33-B4-C1; | A33-B4-C2; | A33-B4-C3;  |
| A33-B4-C4; | A33-B4-C5; | A33-B4-C6; | A33-B4-C7; | A33-B4-C8; | A33-B4-C9;  |
| A34-B4-C1; | A34-B4-C2; | A34-B4-C3; | A34-B4-C4; | A34-B4-C5; | A34-B4-C6;  |
| A34-B4-C7; | A34-B4-C8; | A34-B4-C9; | A35-B4-C1; | A35-B4-C2; | A35-B4-C3;  |
| A35-B4-C4; | A35-B4-C5; | A35-B4-C6; | A35-B4-C7; | A35-B4-C8; | A35-B4-C9;  |
| A36-B4-C1; | A36-B4-C2; | A36-B4-C3; | A36-B4-C4; | A36-B4-C5; | A36-B4-C6;  |
| A36-B4-C7; | A36-B4-C8; | A36-B4-C9; | A37-B4-C1; | A37-B4-C2; | A37-B4-C3;  |
| A37-B4-C4; | A37-B4-C5; | A37-B4-C6; | A37-B4-C7; | A37-B4-C8; | A37-B4-C9;  |
| A38-B4-C1; | A38-B4-C2; | A38-B4-C3; | A38-B4-C4; | A38-B4-C5; | A38-B4-C6;  |
| A38-B4-C7; | A38-B4-C8; | A38-B4-C9; | A39-B4-C1; | A39-B4-C2; | A39-B4-C3;  |
| A39-B4-C4; | A39-B4-C5; | A39-B4-C6; | A39-B4-C7; | A39-B4-C8; | A39-B4-C9;  |
| A40-B4-C1; | A40-B4-C2; | A40-B4-C3; | A40-B4-C4; | A40-B4-C5; | A40-B4-C6;  |
| A40-B4-C7; | A40-B4-C8; | A40-B4-C9; | A41-B4-C1; | A41-B4-C2; | A41-B4-C3;  |
| A41-B4-C4; | A41-B4-C5; | A41-B4-C6; | A41-B4-C7; | A41-B4-C8; | A41-B4-C9;  |
| A42-B4-C1; | A42-B4-C2; | A42-B4-C3; | A42-B4-C4; | A42-B4-C5; | A42-B4-C6;  |
|            |            | ,          | ,          |            | · - · · ••• |

| A42-B4-C7;               | A42-B4-C8;               | A42-B4-C9;               | A43-B4-C1;               | A43-B4-C2;               | A43-B4-C3;               |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A43-B4-C4;               | A43-B4-C5;               | A43-B4-C6;               | A43-B4-C7;               | A43-B4-C8;               | A43-B4-C9;               |
| A44-B4-C1;               | A44-B4-C2;               | A44-B4-C3;               | A44-B4-C4;               | A44-B4-C5;               | A44-B4-C6;               |
| A44-B4-C7;               | A44-B4-C8;               | A44-B4-C9;               | A45-B4-C1;               | A45-B4-C2;               | A45-B4-C3;               |
| A45-B4-C4;               | A45-B4-C5;               | A45-B4-C6;               | A45-B4-C7;               | A45-B4-C8;               | A45-B4-C9;               |
| A46-B4-C1;               | A46-B4-C2;               | A46-B4-C3;               | A46-B4-C4;               | A46-B4-C5;               | A46-B4-C6;               |
| A46-B4-C7;               | A46-B4-C8;               | A46-B4-C9;               | A47-B4-C1;               | A47-B4-C2;               | A47-B4-C3;               |
| A47-B4-C4;               | A47-B4-C5;               | A47-B4-C6;               | A47-B4-C7;               | A47-B4-C8;               | A47-B4-C9;               |
| A48-B4-C1;               | A48-B4-C2;               | A48-B4-C3;               | A48-B4-C4;               | A48-B4-C5;               | A48-B4-C6;               |
| A48-B4-C7;               | A48-B4-C8;               | A48-B4-C9;               | A49-B4-C1;               | A49-B4-C2;               | A49-B4-C3;               |
| A49-B4-C4;               | A49-B4-C5;               | A49-B4-C6;               | A49-B4-C7;               | A49-B4-C8;               | A49-B4-C9;               |
| A50-B4-C1;               | A50-B4-C2;               | A50-B4-C3;               | A50-B4-C4;               | A50-B4-C5;               | A50-B4-C6;               |
| A50-B4-C7;               | A50-B4-C8;               | A50-B4-C9;               | A51-B4-C1;               | A51-B4-C2;               | A51-B4-C3;               |
| A51-B4-C4;               | A51-B4-C5;               | A51-B4-C6;               | A51-B4-C7;               | A51-B4-C8;               | A51-B4-C9;               |
| A52-B4-C1;               | A52-B4-C2;               | A52-B4-C3;               | A52-B4-C4;               | A52-B4-C5;               | A52-B4-C6;               |
| A52-B4-C7;               | A52-B4-C8;               | A52-B4-C9;               | A53-B4-C1;               | A53-B4-C2;               | A53-B4-C3;               |
| A53-B4-C4;               | A53-B4-C5;               | A53-B4-C6;               | A53-B4-C7;               | A53-B4-C8;               | A53-B4-C9;               |
| A54-B4-C1;               | A54-B4-C2;               | A54-B4-C3;               | A54-B4-C4;               | A54-B4-C5;               | A54-B4-C6;               |
| A54-B4-C7;               | A54-B4-C8;               | A54-B4-C9;               | A55-B4-C1;               | A55-B4-C2;               | A55-B4-C3;               |
| A55-B4-C4;               | A55-B4-C5;               | A55-B4-C6;               | A55-B4-C7;               | A55-B4-C8;               | A55-B4-C9;               |
| A56-B4-C1;               | A56-B4-C2;               | A56-B4-C3;               | A56-B4-C4;               | A56-B4-C5;               | A56-B4-C6;               |
| A56-B4-C7;               | A56-B4-C8;               | A56-B4-C9;               | A57-B4-C1;               | A57-B4-C2;               | A57-B4-C3;               |
| A57-B4-C4;               | A57-B4-C5;               | A57-B4-C6;               | A57-B4-C7;               | A57-B4-C8;               | A57-B4-C9;               |
| A58-B4-C1;               | A58-B4-C2;               | A58-B4-C3;               | A58-B4-C4;               | A58-B4-C5;               | A58-B4-C6;               |
| A58-B4-C7;               | A58-B4-C8;               | A58-B4-C9;               | A59-B4-C1;               | A59-B4-C2;               | A59-B4-C3;               |
| A59-B4-C4;               | A59-B4-C5;               | A59-B4-C6;               | A59-B4-C7;               | A59-B4-C8;               | A59-B4-C9;               |
| A60-B4-C1;               | A60-B4-C2;               | A60-B4-C3;               | A60-B4-C4;               | A60-B4-C5;               | A60-B4-C6;               |
| A60-B4-C7;               | A60-B4-C8;               | A60-B4-C9;               | A61-B4-C1;               | A61-B4-C2;               | A61-B4-C3;               |
| A61-B4-C4;               | A61-B4-C5;               | A61-B4-C6;               | A61-B4-C7;               | A61-B4-C8;               | A61-B4-C9;               |
| A62-B4-C1;               | A62-B4-C2;               | A62-B4-C3;               | A62-B4-C4;               | A62-B4-C5;               | A62-B4-C6;               |
| A62-B4-C7;               | A62-B4-C8;               | A62-B4-C9;               | A63-B4-C1;               | A63-B4-C2;               | A63-B4-C3;               |
| A63-B4-C4;               | A63-B4-C5;               | A63-B4-C6;               | A63-B4-C7;               | A63-B4-C8;               | A63-B4-C9;               |
| A64-B4-C1;               | A64-B4-C2;               | A64-B4-C3;               | A64-B4-C4;               | A64-B4-C5;               | A64-B4-C6;               |
| A64-B4-C7;               | A64-B4-C8;               | A64-B4-C9;               | A65-B4-C1;               | A65-B4-C2;               | A65-B4-C3;               |
| A65-B4-C4;               | A65-B4-C5;               | A65-B4-C6;               | A65-B4-C7;               | A65-B4-C8;               | A65-B4-C9;               |
| A66-B4-C1;               | A66-B4-C2;               | A66-B4-C3;               | A66-B4-C4;               | A66-B4-C5;               | A66-B4-C6;               |
| A66-B4-C7;               | A66-B4-C8;               | A66-B4-C9;               | A67-B4-C1;               | A67-B4-C2;               | A67-B4-C3;               |
| A67-B4-C4;               | A67-B4-C5;               | A67-B4-C6;               | A67-B4-C7;               | A67-B4-C8;               | A67-B4-C9;               |
| A68-B4-C1;               | A68-B4-C2;               | A68-B4-C3;               | A68-B4-C4;               | A68-B4-C5;               | A68-B4-C6;               |
| A68-B4-C7;               | A68-B4-C8;<br>A69-B4-C5; | A68-B4-C9;               | A69-B4-C1;               | A69-B4-C2;               | A69-B4-C3;               |
| A69-B4-C4;<br>A70-B4-C1; | A70-B4-C2;               | A69-B4-C6;<br>A70-B4-C3; | A69-B4-C7;               | A69-B4-C8;               | A69-B4-C9;               |
| A70-B4-C1;               | A70-B4-C2;<br>A70-B4-C8; | A70-B4-C9;               | A70-B4-C4;<br>A71-B4-C1; | A70-B4-C5;<br>A71-B4-C2; | A70-B4-C6;<br>A71-B4-C3; |
| A70-B4-C7;<br>A71-B4-C4; | A71-B4-C5;               | A70-B4-C9;               | A71-B4-C1;<br>A71-B4-C7; | •                        |                          |
| A1-B5-C1;                | A1-B4-C3,<br>A1-B5-C2;   | A1-B5-C3;                | A1-B4-C7,<br>A1-B5-C4;   | A71-B4-C8;<br>A1-B5-C5;  | A71-B4-C9;<br>A1-B5-C6;  |
| A1-B5-C1;                | A1-B5-C2;                | A1-B5-C9;                | A2-B5-C1;                | A2-B5-C2;                | A2-B5-C3;                |
| A2-B5-C4;                | A2-B5-C5;                | A2-B5-C6;                | A2-B5-C7;                | A2-B5-C8;                | A2-B5-C9;                |
| A3-B5-C1;                | A3-B5-C2;                | A3-B5-C3;                | A3-B5-C4;                | A2-B5-C6;<br>A3-B5-C5;   | A3-B5-C6;                |
| A3-B5-C7;                | A3-B5-C2;<br>A3-B5-C8;   | A3-B5-C9;                | A3-B3-C4;<br>A4-B5-C1;   | A3-B3-C3;<br>A4-B5-C2;   | A3-B3-C0;<br>A4-B5-C3;   |
| A4-B5-C4;                | A3-B5-C6;<br>A4-B5-C5;   | A3-B3-C9;<br>A4-B5-C6;   | A4-B5-C1;                | A4-B5-C8;                | A4-B5-C9;                |
| A5-B5-C1;                | A5-B5-C2;                | A5-B5-C3;                | A5-B5-C4;                | A5-B5-C5;                | A5-B5-C6;                |
| A5-B5-C7;                | A5-B5-C2;                | A5-B5-C9;                | A6-B5-C1;                | A6-B5-C2;                | A6-B5-C3;                |
| A6-B5-C4;                | A6-B5-C5;                | A6-B5-C6;                | A6-B5-C7;                | A6-B5-C8;                | A6-B5-C9;                |
| A7-B5-C1;                | A7-B5-C2;                | A7-B5-C3;                | A7-B5-C4;                | A7-B5-C5;                | A7-B5-C6;                |
| A7-B5-C7;                | A7-B5-C8;                | A7-B5-C9;                | A8-B5-C1;                | A8-B5-C2;                | A8-B5-C3;                |
| <del>-</del>             | ,                        |                          | ,                        | ,                        |                          |

| A8-B5-C4;  | A8-B5-C5;  | A8-B5-C6;                | A8-B5-C7;                | A8-B5-C8;                | A8-B5-C9;                |
|------------|------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A9-B5-C1;  | A9-B5-C2;  | A9-B5-C3;                | A9-B5-C4;                | A9-B5-C5;                | A9-B5-C6;                |
| A9-B5-C7;  | A9-B5-C8;  | A9-B5-C9;                | A10-B5-C1;               | A10-B5-C2;               | A10-B5-C3;               |
| A10-B5-C4; | A10-B5-C5; | A10-B5-C6;               | A10-B5-C7;               | A10-B5-C8;               | A10-B5-C9;               |
| A11-B5-C1; | A11-B5-C2; | A11-B5-C3;               | A11-B5-C4;               | A11-B5-C5;               | A11-B5-C6;               |
| A11-B5-C7; | A11-B5-C8; | A11-B5-C9;               | A12-B5-C1;               | A12-B5-C2;               | A12-B5-C3;               |
| A12-B5-C4; | A12-B5-C5; | A12-B5-C6;               | A12-B5-C7;               | A12-B5-C8;               | A12-B5-C9;               |
| A13-B5-C1; | A13-B5-C2; | A13-B5-C3;               | A13-B5-C4;               | A13-B5-C5;               | A13-B5-C6;               |
| A13-B5-C7; | A13-B5-C8; | A13-B5-C9;               | A14-B5-C1;               | A14-B5-C2;               | A14-B5-C3;               |
| A14-B5-C4; | A14-B5-C5; | A14-B5-C6;               | A14-B5-C7;               | A14-B5-C8;               | A14-B5-C9;               |
| A15-B5-C1; | A15-B5-C2; | A15-B5-C3;               | A15-B5-C4;               | A15-B5-C5;               | A15-B5-C6;               |
| A15-B5-C7; | A15-B5-C8; | A15-B5-C9;               | A16-B5-C1;               | A16-B5-C2;               | A16-B5-C3;               |
| A16-B5-C4; | A16-B5-C5; | A16-B5-C6;               | A16-B5-C7;               | A16-B5-C8;               | A16-B5-C9;               |
| A17-B5-C1; | A17-B5-C2; | A17-B5-C3;               | A17-B5-C4;               | A17-B5-C5;               | A17-B5-C6;               |
| A17-B5-C7; | A17-B5-C8; | A17-B5-C9;               | A18-B5-C1;               | A18-B5-C2;               | A18-B5-C3;               |
| A18-B5-C4; | A18-B5-C5; | A18-B5-C6;               | A18-B5-C7;               | A18-B5-C8;               | A18-B5-C9;               |
| A19-B5-C1; | A19-B5-C2; | A19-B5-C3;               | A19-B5-C4;               | A19-B5-C5;               | A19-B5-C6;               |
| A19-B5-C7; | A19-B5-C8; | A19-B5-C9;               | A20-B5-C1;               | A20-B5-C2;               | A20-B5-C3;               |
| A20-B5-C4; | A20-B5-C5; | A20-B5-C6;               | A20-B5-C7;               | A20-B5-C8;               | A20-B5-C9;               |
| A21-B5-C1; | A21-B5-C2; | A21-B5-C3;               | A21-B5-C4;               | A21-B5-C5;               | A21-B5-C6;               |
| A21-B5-C7; | A21-B5-C8; | A21-B5-C9;               | A22-B5-C1;               | A22-B5-C2;               | A22-B5-C3;               |
| A22-B5-C4; | A22-B5-C5; | A22-B5-C6;               | A22-B5-C7;               | A22-B5-C8;               | A22-B5-C9;               |
| A23-B5-C1; | A23-B5-C2; | A23-B5-C3;               | A23-B5-C4;               | A23-B5-C5;               | A23-B5-C6;               |
| A23-B5-C7; | A23-B5-C8; | A23-B5-C9;               | A24-B5-C1;               | A24-B5-C2;               | A24-B5-C3;               |
| A24-B5-C4; | A24-B5-C5; | A24-B5-C6;               | A24-B5-C7;               | A24-B5-C8;               | A24-B5-C9;               |
| A25-B5-C1; | A25-B5-C2; | A25-B5-C3;               | A25-B5-C4;               | A25-B5-C5;               | A25-B5-C6;               |
| A25-B5-C7; | A25-B5-C8; | A25-B5-C9;               | A26-B5-C1;               | A26-B5-C2;               | A26-B5-C3;               |
| A26-B5-C4; | A26-B5-C5; | A26-B5-C6;               | A26-B5-C7;               | A26-B5-C8;               | A26-B5-C9;               |
| A27-B5-C1; | A27-B5-C2; | A27-B5-C3;               | A27-B5-C4;               | A27-B5-C5;               | A27-B5-C6;               |
| A27-B5-C7; | A27-B5-C8; | A27-B5-C9;               | A28-B5-C1;               | A28-B5-C2;               | A28-B5-C3;               |
| A28-B5-C4; | A28-B5-C5; | A28-B5-C6;               | A28-B5-C7;               | A28-B5-C8;               | A28-B5-C9;               |
| A29-B5-C1; | A29-B5-C2; | A29-B5-C3;               | A29-B5-C4;               | A29-B5-C5;               | A29-B5-C6;               |
| A29-B5-C7; | A29-B5-C8; | A29-B5-C9;               | A30-B5-C1;               | A30-B5-C2;               | A30-B5-C3;               |
| A30-B5-C4; | A30-B5-C5; | A30-B5-C6;               | A30-B5-C7;               | A30-B5-C8;               | A30-B5-C9;               |
| A31-B5-C1; | A31-B5-C2; | A31-B5-C3;               | A31-B5-C4;               | A31-B5-C5;               | A31-B5-C6;               |
| A31-B5-C7; | A31-B5-C8; | A31-B5-C9;               | A32-B5-C1;               | A32-B5-C2;               | A32-B5-C3;               |
| A32-B5-C4; | A32-B5-C5; | A32-B5-C6;               | A32-B5-C7;               | A32-B5-C8;               | A32-B5-C9;               |
| A33-B5-C1; | A33-B5-C2; | A33-B5-C3;               | A33-B5-C4;               | A33-B5-C5;               | A33-B5-C6;               |
| A33-B5-C7; | A33-B5-C8; | A33-B5-C9;               | A34-B5-C1;               | A34-B5-C2;               | A34-B5-C3;               |
| A34-B5-C4; | A34-B5-C5; | A34-B5-C6;               | A34-B5-C7;               | A34-B5-C8;               | A34-B5-C9;               |
| A35-B5-C1; | A35-B5-C2; | A35-B5-C3;               | A35-B5-C4;               | A35-B5-C5;               | A35-B5-C6;               |
| A35-B5-C7; | A35-B5-C8; | A35-B5-C9;               | A36-B5-C1;               | A36-B5-C2;               | A36-B5-C3;               |
| A36-B5-C4; | A36-B5-C5; | A36-B5-C6;               | A36-B5-C7;               | A36-B5-C8;               | A36-B5-C9;               |
| A37-B5-C1; | A37-B5-C2; | A37-B5-C3;               | A37-B5-C4;               | A37-B5-C5;               | A37-B5-C6;               |
| A37-B5-C7; | A37-B5-C8; | A37-B5-C9;               | A38-B5-C1;               | A38-B5-C2;               | A38-B5-C3;               |
| A38-B5-C4; | A38-B5-C5; | A38-B5-C6;               | A38-B5-C7;               | A38-B5-C8;               | A38-B5-C9;               |
| A39-B5-C1; | A39-B5-C2; | A39-B5-C3;               | A39-B5-C4;               | A39-B5-C5;               | A39-B5-C6;               |
| A39-B5-C7; | A39-B5-C8; | A39-B5-C9;               | A40-B5-C1;               | A40-B5-C2;               | A40-B5-C3;<br>A40-B5-C9; |
| A40-B5-C4; | A40-B5-C5; | A40-B5-C6;               | A40-B5-C7;               | A40-B5-C8;               | •                        |
| A41-B5-C1; | A41-B5-C2; | A41-B5-C3;               | A41-B5-C4;               | A41-B5-C5;               | A41-B5-C6;               |
| A41-B5-C7; | A41-B5-C8; | A41-B5-C9;               | A42-B5-C1;               | A42-B5-C2;               | A42-B5-C3;               |
| A42-B5-C4; | A42-B5-C5; | A42-B5-C6;               | A42-B5-C7;               | A42-B5-C8;               | A42-B5-C9;<br>A43-B5-C6; |
| A43-B5-C1; | A43-B5-C2; | A43-B5-C3;<br>A43-B5-C9; | A43-B5-C4;<br>A44-B5-C1; | A43-B5-C5;<br>A44-B5-C2; | A43-B5-C6;<br>A44-B5-C3; |
| A43-B5-C7; | A43-B5-C8; | •                        | •                        | A44-B5-C2;<br>A44-B5-C8; | A44-B5-C9;               |
| A44-B5-C4; | A44-B5-C5; | A44-B5-C6;               | A44-B5-C7;               | A++-DJ-C0;               | A++-DJ-C7;               |

| A45-B5-C1; | A45-B5-C2; | A45-B5-C3; | A45-B5-C4; | A45-B5-C5; | A45-B5-C6; |
|------------|------------|------------|------------|------------|------------|
| A45-B5-C7; | A45-B5-C8; | A45-B5-C9; | A46-B5-C1; | A46-B5-C2; | A46-B5-C3; |
| A46-B5-C4; | A46-B5-C5; | A46-B5-C6; | A46-B5-C7; | A46-B5-C8; | A46-B5-C9; |
| A47-B5-C1; | A47-B5-C2; | A47-B5-C3; | A47-B5-C4; | A47-B5-C5; | A47-B5-C6; |
| A47-B5-C7; | A47-B5-C8; | A47-B5-C9; | A48-B5-C1; | A48-B5-C2; | A48-B5-C3; |
| A48-B5-C4; | A48-B5-C5; | A48-B5-C6; | A48-B5-C7; | A48-B5-C8; | A48-B5-C9; |
| A49-B5-C1; | A49-B5-C2; | A49-B5-C3; | A49-B5-C4; | A49-B5-C5; | A49-B5-C6; |
| A49-B5-C7; | A49-B5-C8; | A49-B5-C9; | A50-B5-C1; | A50-B5-C2; | A50-B5-C3; |
| A50-B5-C4; | A50-B5-C5; | A50-B5-C6; | A50-B5-C7; | A50-B5-C8; | A50-B5-C9; |
| A51-B5-C1; | A51-B5-C2; | A51-B5-C3; | A51-B5-C4; | A51-B5-C5; | A51-B5-C6; |
| A51-B5-C7; | A51-B5-C8; | A51-B5-C9; | A52-B5-C1; | A52-B5-C2; | A52-B5-C3; |
| A52-B5-C4; | A52-B5-C5; | A52-B5-C6; | A52-B5-C7; | A52-B5-C8; | A52-B5-C9; |
| A53-B5-C1; | A53-B5-C2; | A53-B5-C3; | A53-B5-C4; | A53-B5-C5; | A53-B5-C6; |
| A53-B5-C7; | A53-B5-C8; | A53-B5-C9; | A54-B5-C1; | A54-B5-C2; | A54-B5-C3; |
| A54-B5-C4; | A54-B5-C5; | A54-B5-C6; | A54-B5-C7; | A54-B5-C8; | A54-B5-C9; |
| A55-B5-C1; | A55-B5-C2; | A55-B5-C3; | A55-B5-C4; | A55-B5-C5; | A55-B5-C6; |
| A55-B5-C7; | A55-B5-C8; | A55-B5-C9; | A56-B5-C1; | A56-B5-C2; | A56-B5-C3; |
| A56-B5-C4; | A56-B5-C5; | A56-B5-C6; | A56-B5-C7; | A56-B5-C8; | A56-B5-C9; |
| A57-B5-C1; | A57-B5-C2; | A57-B5-C3; | A57-B5-C4; | A57-B5-C5; | A57-B5-C6; |
| A57-B5-C7; | A57-B5-C8; | A57-B5-C9; | A58-B5-C1; | A58-B5-C2; | A58-B5-C3; |
| A58-B5-C4; | A58-B5-C5; | A58-B5-C6; | A58-B5-C7; | A58-B5-C8; | A58-B5-C9; |
| A59-B5-C1; | A59-B5-C2; | A59-B5-C3; | A59-B5-C4; | A59-B5-C5; | A59-B5-C6; |
| A59-B5-C7; | A59-B5-C8; | A59-B5-C9; | A60-B5-C1; | A60-B5-C2; | A60-B5-C3; |
| A60-B5-C4; | A60-B5-C5; | A60-B5-C6; | A60-B5-C7; | A60-B5-C8; | A60-B5-C9; |
| A61-B5-C1; | A61-B5-C2; | A61-B5-C3; | A61-B5-C4; | A61-B5-C5; | A61-B5-C6; |
| A61-B5-C7; | A61-B5-C8; | A61-B5-C9; | A62-B5-C1; | A62-B5-C2; | A62-B5-C3; |
| A62-B5-C4; | A62-B5-C5; | A62-B5-C6; | A62-B5-C7; | A62-B5-C8; | A62-B5-C9; |
| A63-B5-C1; | A63-B5-C2; | A63-B5-C3; | A63-B5-C4; | A63-B5-C5; | A63-B5-C6; |
| A63-B5-C7; | A63-B5-C8; | A63-B5-C9; | A64-B5-C1; | A64-B5-C2; | A64-B5-C3; |
| A64-B5-C4; | A64-B5-C5; | A64-B5-C6; | A64-B5-C7; | A64-B5-C8; | A64-B5-C9; |
| A65-B5-C1; | A65-B5-C2; | A65-B5-C3; | A65-B5-C4; | A65-B5-C5; | A65-B5-C6; |
| A65-B5-C7; | A65-B5-C8; | A65-B5-C9; | A66-B5-C1; | A66-B5-C2; | A66-B5-C3; |
| A66-B5-C4; | A66-B5-C5; | A66-B5-C6; | A66-B5-C7; | A66-B5-C8; | A66-B5-C9; |
| A67-B5-C1; | A67-B5-C2; | A67-B5-C3; | A67-B5-C4; | A67-B5-C5; | A67-B5-C6; |
| A67-B5-C7; | A67-B5-C8; | A67-B5-C9; | A68-B5-C1; | A68-B5-C2; | A68-B5-C3; |
| A68-B5-C4; | A68-B5-C5; | A68-B5-C6; | A68-B5-C7; | A68-B5-C8; | A68-B5-C9; |
| A69-B5-C1; | A69-B5-C2; | A69-B5-C3; | A69-B5-C4; | A69-B5-C5; | A69-B5-C6; |
| A69-B5-C7; | A69-B5-C8; | A69-B5-C9; | A70-B5-C1; | A70-B5-C2; | A70-B5-C3; |
| A70-B5-C4; | A70-B5-C5; | A70-B5-C6; | A70-B5-C7; | A70-B5-C8; | A70-B5-C9; |
| A71-B5-C1; | A71-B5-C2; | A71-B5-C3; | A71-B5-C4; | A71-B5-C5; | A71-B5-C6; |
| A71-B5-C7; | A71-B5-C8; | A71-B5-C9; | A1-B6-C1;  | A1-B6-C2;  | A1-B6-C3;  |
| A1-B6-C4;  | A1-B6-C5;  | A1-B6-C6;  | A1-B6-C7;  | A1-B6-C8;  | A1-B6-C9;  |
| A2-B6-C1;  | A2-B6-C2;  | A2-B6-C3;  | A2-B6-C4;  | A2-B6-C5;  | A2-B6-C6;  |
| A2-B6-C7;  | A2-B6-C8;  | A2-B6-C9;  | A3-B6-C1;  | A3-B6-C2;  | A3-B6-C3;  |
| A3-B6-C4;  | A3-B6-C5;  | A3-B6-C6;  | A3-B6-C7;  | A3-B6-C8;  | A3-B6-C9;  |
| A4-B6-C1;  | A4-B6-C2;  | A4-B6-C3;  | A4-B6-C4;  | A4-B6-C5;  | A4-B6-C6;  |
| A4-B6-C7;  | A4-B6-C8;  | A4-B6-C9;  | A5-B6-C1;  | A5-B6-C2;  | A5-B6-C3;  |
| A5-B6-C4;  | A5-B6-C5;  | A5-B6-C6;  | A5-B6-C7;  | A5-B6-C8;  | A5-B6-C9;  |
| A6-B6-C1;  | A6-B6-C2;  | A6-B6-C3;  | A6-B6-C4;  | A6-B6-C5;  | A6-B6-C6;  |
| A6-B6-C7;  | A6-B6-C8;  | A6-B6-C9;  | A7-B6-C1;  | A7-B6-C2;  | A7-B6-C3;  |
| A7-B6-C4;  | A7-B6-C5;  | A7-B6-C6;  | A7-B6-C7;  | A7-B6-C8;  | A7-B6-C9;  |
| A8-B6-C1;  | A8-B6-C2;  | A8-B6-C3;  | A8-B6-C4;  | A8-B6-C5;  | A8-B6-C6;  |
| A8-B6-C7;  | A8-B6-C8;  | A8-B6-C9;  | A9-B6-C1;  | A9-B6-C2;  | A9-B6-C3;  |
| A9-B6-C4;  | A9-B6-C5;  | A9-B6-C6;  | A9-B6-C7;  | A9-B6-C8;  | A9-B6-C9;  |
| A10-B6-C1; | A10-B6-C2; | A10-B6-C3; | A10-B6-C4; | A10-B6-C5; | A10-B6-C6; |
|            |            |            |            |            |            |

| A10-B6-C7;               | A10-B6-C8;               | A10-B6-C9;               | A11-B6-C1;               | A11-B6-C2; | A11-B6-C3; |
|--------------------------|--------------------------|--------------------------|--------------------------|------------|------------|
| A11-B6-C4;               | A11-B6-C5;               | A11-B6-C6;               | A11-B6-C7;               | A11-B6-C8; | A11-B6-C9; |
| A12-B6-C1;               | A12-B6-C2;               | A12-B6-C3;               | A12-B6-C4;               | A12-B6-C5; | A12-B6-C6; |
| A12-B6-C7;               | A12-B6-C8;               | A12-B6-C9;               | A13-B6-C1;               | A13-B6-C2; | A13-B6-C3; |
| A13-B6-C4;               | A13-B6-C5;               | A13-B6-C6;               | A13-B6-C7;               | A13-B6-C8; | A13-B6-C9; |
| A14-B6-C1;               | A14-B6-C2;               | A14-B6-C3;               | A14-B6-C4;               | A14-B6-C5; | A14-B6-C6; |
| A14-B6-C7;               | A14-B6-C8;               | A14-B6-C9;               | A15-B6-C1;               | A15-B6-C2; | A15-B6-C3; |
| A15-B6-C4;               | A15-B6-C5;               | A15-B6-C6;               | A15-B6-C7;               | A15-B6-C8; | A15-B6-C9; |
| A16-B6-C1;               | A16-B6-C2;               | A16-B6-C3;               | A16-B6-C4;               | A16-B6-C5; | A16-B6-C6; |
| A16-B6-C7;               | A16-B6-C8;               | A16-B6-C9;               | A17-B6-C1;               | A17-B6-C2; | A17-B6-C3; |
| A17-B6-C4;               | A17-B6-C5;               | A17-B6-C6;               | A17-B6-C7;               | A17-B6-C8; | A17-B6-C9; |
| A18-B6-C1;               | A18-B6-C2;               | A18-B6-C3;               | A18-B6-C4;               | A18-B6-C5; | A18-B6-C6; |
| A18-B6-C7;               | A18-B6-C8;               | A18-B6-C9;               | A19-B6-C1;               | A19-B6-C2; | A19-B6-C3; |
| A19-B6-C4;               | A19-B6-C5;               | A19-B6-C6;               | A19-B6-C7;               | A19-B6-C8; | A19-B6-C9; |
| A20-B6-C1;               | A20-B6-C2;               | A20-B6-C3;               | A20-B6-C4;               | A20-B6-C5; | A20-B6-C6; |
| A20-B6-C1;               | A20-B6-C2;               | A20-B6-C9;               | A21-B6-C1;               | A21-B6-C2; | A21-B6-C3; |
| A20-B6-C7;<br>A21-B6-C4; | A20-B6-C6;<br>A21-B6-C5; | A21-B6-C6;               | A21-B6-C7;               | A21-B6-C8; | A21-B6-C9; |
|                          |                          | A21-B6-C6;<br>A22-B6-C3; | A21-B6-C7;<br>A22-B6-C4; | A21-B6-C5; | A22-B6-C6; |
| A22-B6-C1;<br>A22-B6-C7; | A22-B6-C2;               |                          | A23-B6-C1;               | A23-B6-C2; | A23-B6-C3; |
|                          | A22-B6-C8;<br>A23-B6-C5; | A22-B6-C9;               |                          | A23-B6-C8; |            |
| A23-B6-C4;               |                          | A23-B6-C6;               | A23-B6-C7;               |            | A23-B6-C9; |
| A24-B6-C1;               | A24-B6-C2;               | A24-B6-C3;               | A24-B6-C4;               | A24-B6-C5; | A24-B6-C6; |
| A24-B6-C7;               | A24-B6-C8;               | A24-B6-C9;               | A25-B6-C1;               | A25-B6-C2; | A25-B6-C3; |
| A25-B6-C4;               | A25-B6-C5;               | A25-B6-C6;               | A25-B6-C7;               | A25-B6-C8; | A25-B6-C9; |
| A26-B6-C1;               | A26-B6-C2;               | A26-B6-C3;               | A26-B6-C4;               | A26-B6-C5; | A26-B6-C6; |
| A26-B6-C7;               | A26-B6-C8;               | A26-B6-C9;               | A27-B6-C1;               | A27-B6-C2; | A27-B6-C3; |
| A27-B6-C4;               | A27-B6-C5;               | A27-B6-C6;               | A27-B6-C7;               | A27-B6-C8; | A27-B6-C9; |
| A28-B6-C1;               | A28-B6-C2;               | A28-B6-C3;               | A28-B6-C4;               | A28-B6-C5; | A28-B6-C6; |
| A28-B6-C7;               | A28-B6-C8;               | A28-B6-C9;               | A29-B6-C1;               | A29-B6-C2; | A29-B6-C3; |
| A29-B6-C4;               | A29-B6-C5;               | A29-B6-C6;               | A29-B6-C7;               | A29-B6-C8; | A29-B6-C9; |
| A30-B6-C1;               | A30-B6-C2;               | A30-B6-C3;               | A30-B6-C4;               | A30-B6-C5; | A30-B6-C6; |
| A30-B6-C7;               | A30-B6-C8;               | A30-B6-C9;               | A31-B6-C1;               | A31-B6-C2; | A31-B6-C3; |
| A31-B6-C4;               | A31-B6-C5;               | A31-B6-C6;               | A31-B6-C7;               | A31-B6-C8; | A31-B6-C9; |
| A32-B6-C1;               | A32-B6-C2;               | A32-B6-C3;               | A32-B6-C4;               | A32-B6-C5; | A32-B6-C6; |
| A32-B6-C7;               | A32-B6-C8;               | A32-B6-C9;               | A33-B6-C1;               | A33-B6-C2; | A33-B6-C3; |
| A33-B6-C4;               | A33-B6-C5;               | A33-B6-C6;               | A33-B6-C7;               | A33-B6-C8; | A33-B6-C9; |
| A34-B6-C1;               | A34-B6-C2;               | A34-B6-C3;               | A34-B6-C4;               | A34-B6-C5; | A34-B6-C6; |
| A34-B6-C7;               | A34-B6-C8;               | A34-B6-C9;               | A35-B6-C1;               | A35-B6-C2; | A35-B6-C3; |
| A35-B6-C4;               | A35-B6-C5;               | A35-B6-C6;               | A35-B6-C7;               | A35-B6-C8; | A35-B6-C9; |
| A36-B6-C1;               | A36-B6-C2;               | A36-B6-C3;               | A36-B6-C4;               | A36-B6-C5; | A36-B6-C6; |
| A36-B6-C7;               | A36-B6-C8;               | A36-B6-C9;               | A37-B6-C1;               | A37-B6-C2; | A37-B6-C3; |
| A37-B6-C4;               | A37-B6-C5;               | A37-B6-C6;               | A37-B6-C7;               | A37-B6-C8; | A37-B6-C9; |
| A38-B6-C1;               | A38-B6-C2;               | A38-B6-C3;               | A38-B6-C4;               | A38-B6-C5; | A38-B6-C6; |
| A38-B6-C7;               | A38-B6-C8;               | A38-B6-C9;               | A39-B6-C1;               | A39-B6-C2; | A39-B6-C3; |
| A39-B6-C4;               | A39-B6-C5;               | A39-B6-C6;               | A39-B6-C7;               | A39-B6-C8; | A39-B6-C9; |
| A40-B6-C1;               | A40-B6-C2;               | A40-B6-C3;               | A40-B6-C4;               | A40-B6-C5; | A40-B6-C6; |
| A40-B6-C7;               | A40-B6-C8;               | A40-B6-C9;               | A41-B6-C1;               | A41-B6-C2; | A41-B6-C3; |
| A41-B6-C4;               | A41-B6-C5;               | A41-B6-C6;               | A41-B6-C7;               | A41-B6-C8; | A41-B6-C9; |
| A42-B6-C1;               | A42-B6-C2;               | A42-B6-C3;               | A42-B6-C4;               | A42-B6-C5; | A42-B6-C6; |
| A42-B6-C7;               | A42-B6-C8;               | A42-B6-C9;               | A43-B6-C1;               | A43-B6-C2; | A43-B6-C3; |
| A43-B6-C4;               | A43-B6-C5;               | A43-B6-C6;               | A43-B6-C7;               | A43-B6-C8; | A43-B6-C9; |
| A44-B6-C1;               | A44-B6-C2;               | A44-B6-C3;               | A44-B6-C4;               | A44-B6-C5; | A44-B6-C6; |
| A44-B6-C7;               | A44-B6-C8;               | A44-B6-C9;               | A45-B6-C1;               | A45-B6-C2; | A45-B6-C3; |
| A45-B6-C4;               | A45-B6-C5;               | A45-B6-C6;               | A45-B6-C7;               | A45-B6-C8; | A45-B6-C9; |
| A46-B6-C1;               | A46-B6-C2;               | A46-B6-C3;               | A46-B6-C4;               | A46-B6-C5; | A46-B6-C6; |
| A46-B6-C7;               | A46-B6-C8;               | A46-B6-C9;               | A47-B6-C1;               | A47-B6-C2; | A47-B6-C3; |
|                          |                          |                          |                          |            |            |

| A 47 D.C. C.A. | A 47 D 6 C 5 | A 47 D6 C6. | A 47 D6 C7: | A47-B6-C8;                            | A47-B6-C9; |
|----------------|--------------|-------------|-------------|---------------------------------------|------------|
| A47-B6-C4;     | A47-B6-C5;   | A47-B6-C6;  | A47-B6-C7;  |                                       |            |
| A48-B6-C1;     | A48-B6-C2;   | A48-B6-C3;  | A48-B6-C4;  | A48-B6-C5;                            | A48-B6-C6; |
| A48-B6-C7;     | A48-B6-C8;   | A48-B6-C9;  | A49-B6-C1;  | A49-B6-C2;                            | A49-B6-C3; |
| A49-B6-C4;     | A49-B6-C5;   | A49-B6-C6;  | A49-B6-C7;  | A49-B6-C8;                            | A49-B6-C9; |
| A50-B6-C1;     | A50-B6-C2;   | A50-B6-C3;  | A50-B6-C4;  | A50-B6-C5;                            | A50-B6-C6; |
| A50-B6-C7;     | A50-B6-C8;   | A50-B6-C9;  | A51-B6-C1;  | A51-B6-C2;                            | A51-B6-C3; |
| A51-B6-C4;     | A51-B6-C5;   | A51-B6-C6;  | A51-B6-C7;  | A51-B6-C8;                            | A51-B6-C9; |
| A52-B6-C1;     | A52-B6-C2;   | A52-B6-C3;  | A52-B6-C4;  | A52-B6-C5;                            | A52-B6-C6; |
| A52-B6-C7;     | A52-B6-C8;   | A52-B6-C9;  | A53-B6-C1;  | A53-B6-C2;                            | A53-B6-C3; |
| A53-B6-C4;     | A53-B6-C5;   | A53-B6-C6;  | A53-B6-C7;  | A53-B6-C8;                            | A53-B6-C9; |
| A54-B6-C1;     | A54-B6-C2;   | A54-B6-C3;  | A54-B6-C4;  | A54-B6-C5;                            | A54-B6-C6; |
| A54-B6-C7;     | A54-B6-C8;   | A54-B6-C9;  | A55-B6-C1;  | A55-B6-C2;                            | A55-B6-C3; |
| A55-B6-C4;     | A55-B6-C5;   | A55-B6-C6;  | A55-B6-C7;  | A55-B6-C8;                            | A55-B6-C9; |
| A56-B6-C1;     | A56-B6-C2;   | A56-B6-C3;  | A56-B6-C4;  | A56-B6-C5;                            | A56-B6-C6; |
| A56-B6-C7;     | A56-B6-C8;   | A56-B6-C9;  | A57-B6-C1;  | A57-B6-C2;                            | A57-B6-C3; |
| A57-B6-C4;     | A57-B6-C5;   | A57-B6-C6;  | A57-B6-C7;  | A57-B6-C8;                            | A57-B6-C9; |
| A58-B6-C1;     | A58-B6-C2;   | A58-B6-C3;  | A58-B6-C4;  | A58-B6-C5;                            | A58-B6-C6; |
| A58-B6-C7;     | A58-B6-C8;   | A58-B6-C9;  | A59-B6-C1;  | A59-B6-C2;                            | A59-B6-C3; |
| A59-B6-C4;     | A59-B6-C5;   | A59-B6-C6;  | A59-B6-C7;  | A59-B6-C8;                            | A59-B6-C9; |
|                | A60-B6-C2;   | A60-B6-C3;  | A60-B6-C4;  | A60-B6-C5;                            | A60-B6-C6; |
| A60-B6-C1;     |              |             | A61-B6-C1;  | A61-B6-C2;                            | A61-B6-C3; |
| A60-B6-C7;     | A60-B6-C8;   | A60-B6-C9;  |             | A61-B6-C8;                            |            |
| A61-B6-C4;     | A61-B6-C5;   | A61-B6-C6;  | A61-B6-C7;  |                                       | A61-B6-C9; |
| A62-B6-C1;     | A62-B6-C2;   | A62-B6-C3;  | A62-B6-C4;  | A62-B6-C5;                            | A62-B6-C6; |
| A62-B6-C7;     | A62-B6-C8;   | A62-B6-C9;  | A63-B6-C1;  | A63-B6-C2;                            | A63-B6-C3; |
| A63-B6-C4;     | A63-B6-C5;   | A63-B6-C6;  | A63-B6-C7;  | A63-B6-C8;                            | A63-B6-C9; |
| A64-B6-C1;     | A64-B6-C2;   | A64-B6-C3;  | A64-B6-C4;  | A64-B6-C5;                            | A64-B6-C6; |
| A64-B6-C7;     | A64-B6-C8;   | A64-B6-C9;  | A65-B6-C1;  | A65-B6-C2;                            | A65-B6-C3; |
| A65-B6-C4;     | A65-B6-C5;   | A65-B6-C6;  | A65-B6-C7;  | A65-B6-C8;                            | A65-B6-C9; |
| A66-B6-C1;     | A66-B6-C2;   | A66-B6-C3;  | A66-B6-C4;  | A66-B6-C5;                            | A66-B6-C6; |
| A66-B6-C7;     | A66-B6-C8;   | A66-B6-C9;  | A67-B6-C1;  | A67-B6-C2;                            | A67-B6-C3; |
| A67-B6-C4;     | A67-B6-C5;   | A67-B6-C6;  | A67-B6-C7;  | A67-B6-C8;                            | A67-B6-C9; |
| A68-B6-C1;     | A68-B6-C2;   | A68-B6-C3;  | A68-B6-C4;  | A68-B6-C5;                            | A68-B6-C6; |
| A68-B6-C7;     | A68-B6-C8;   | A68-B6-C9;  | A69-B6-C1;  | A69-B6-C2;                            | A69-B6-C3; |
| A69-B6-C4;     | A69-B6-C5;   | A69-B6-C6;  | A69-B6-C7;  | A69-B6-C8;                            | A69-B6-C9; |
| A70-B6-C1;     | A70-B6-C2;   | A70-B6-C3;  | A70-B6-C4;  | A70-B6-C5;                            | A70-B6-C6; |
| A70-B6-C7;     | A70-B6-C8;   | A70-B6-C9;  | A71-B6-C1;  | A71-B6-C2;                            | A71-B6-C3; |
| A71-B6-C4;     | A71-B6-C5;   | A71-B6-C6;  | A71-B6-C7;  | A71-B6-C8;                            | A71-B6-C9; |
| A1-B7-C1;      | A1-B7-C2;    | A1-B7-C3;   | A1-B7-C4;   | A1-B7-C5;                             | A1-B7-C6;  |
| A1-B7-C7;      | A1-B7-C8;    | A1-B7-C9;   | A2-B7-C1;   | A2-B7-C2;                             | A2-B7-C3;  |
| A2-B7-C4;      | A2-B7-C5;    | A2-B7-C6;   | A2-B7-C7;   | A2-B7-C8;                             | A2-B7-C9;  |
| A3-B7-C1;      | A3-B7-C2;    | A3-B7-C3;   | A3-B7-C4;   | A3-B7-C5;                             | A3-B7-C6;  |
| A3-B7-C7;      | A3-B7-C8;    | A3-B7-C9;   | A4-B7-C1;   | A4-B7-C2;                             | A4-B7-C3;  |
| A4-B7-C4;      | A4-B7-C5;    | A4-B7-C6;   | A4-B7-C7;   | A4-B7-C8;                             | A4-B7-C9;  |
| A5-B7-C1;      | A5-B7-C2;    | A5-B7-C3;   | A5-B7-C4;   | A5-B7-C5;                             | A5-B7-C6;  |
| A5-B7-C7;      | A5-B7-C8;    | A5-B7-C9;   | A6-B7-C1;   | A6-B7-C2;                             | A6-B7-C3;  |
| A6-B7-C4;      | A6-B7-C5;    | A6-B7-C6;   | A6-B7-C7;   | A6-B7-C8;                             | A6-B7-C9;  |
| A7-B7-C1;      | A7-B7-C2;    | A7-B7-C3;   | A7-B7-C4;   | A7-B7-C5;                             | A7-B7-C6;  |
| •              |              |             | •           | · · · · · · · · · · · · · · · · · · · |            |
| A7-B7-C7;      | A7-B7-C8;    | A7-B7-C9;   | A8-B7-C1;   | A8-B7-C2;                             | A8-B7-C3;  |
| A8-B7-C4;      | A8-B7-C5;    | A8-B7-C6;   | A8-B7-C7;   | A8-B7-C8;                             | A8-B7-C9;  |
| A9-B7-C1;      | A9-B7-C2;    | A9-B7-C3;   | A9-B7-C4;   | A9-B7-C5;                             | A9-B7-C6;  |
| A9-B7-C7;      | A9-B7-C8;    | A9-B7-C9;   | A10-B7-C1;  | A10-B7-C2;                            | A10-B7-C3; |
| A10-B7-C4;     | A10-B7-C5;   | A10-B7-C6;  | A10-B7-C7;  | A10-B7-C8;                            | A10-B7-C9; |
| A11-B7-C1;     | A11-B7-C2;   | A11-B7-C3;  | A11-B7-C4;  | A11-B7-C5;                            | A11-B7-C6; |
| A11-B7-C7;     | A11-B7-C8;   | A11-B7-C9;  | A12-B7-C1;  | A12-B7-C2;                            | A12-B7-C3; |
| A12-B7-C4;     | A12-B7-C5;   | A12-B7-C6;  | A12-B7-C7;  | A12-B7-C8;                            | A12-B7-C9; |

| A13-B7-C1; | A13-B7-C2; | A13-B7-C3; | A13-B7-C4; | A13-B7-C5; | A13-B7-C6; |
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| A13-B7-C7; | A13-B7-C8; | A13-B7-C9; | A14-B7-C1; | A14-B7-C2; | A14-B7-C3; |
| A14-B7-C4; | A14-B7-C5; | A14-B7-C6; | A14-B7-C7; | A14-B7-C8; | A14-B7-C9; |
| A15-B7-C1; | A15-B7-C2; | A15-B7-C3; | A15-B7-C4; | A15-B7-C5; | A15-B7-C6; |
| A15-B7-C7; | A15-B7-C8; | A15-B7-C9; | A16-B7-C1; | A16-B7-C2; | A16-B7-C3; |
| A16-B7-C4; | A16-B7-C5; | A16-B7-C6; | A16-B7-C7; | A16-B7-C8; | A16-B7-C9; |
| A17-B7-C1; | A17-B7-C2; | A17-B7-C3; | A17-B7-C4; | A17-B7-C5; | A17-B7-C6; |
| A17-B7-C7; | A17-B7-C8; | A17-B7-C9; | A18-B7-C1; | A18-B7-C2; | A18-B7-C3; |
| A18-B7-C4; | A18-B7-C5; | A18-B7-C6; | A18-B7-C7; | A18-B7-C8; | A18-B7-C9; |
| A19-B7-C1; | A19-B7-C2; | A19-B7-C3; | A19-B7-C4; | A19-B7-C5; | A19-B7-C6; |
| A19-B7-C7; | A19-B7-C8; | A19-B7-C9; | A20-B7-C1; | A20-B7-C2; | A20-B7-C3; |
| A20-B7-C4; | A20-B7-C5; | A20-B7-C6; | A20-B7-C7; | A20-B7-C8; | A20-B7-C9; |
| A21-B7-C1; | A21-B7-C2; | A21-B7-C3; | A21-B7-C4; | A21-B7-C5; | A21-B7-C6; |
| A21-B7-C7; | A21-B7-C8; | A21-B7-C9; | A22-B7-C1; | A22-B7-C2; | A22-B7-C3; |
| A22-B7-C4; | A22-B7-C5; | A22-B7-C6; | A22-B7-C7; | A22-B7-C8; | A22-B7-C9; |
| A23-B7-C1; | A23-B7-C2; | A23-B7-C3; | A23-B7-C4; | A23-B7-C5; | A23-B7-C6; |
| A23-B7-C7; | A23-B7-C8; | A23-B7-C9; | A24-B7-C1; | A24-B7-C2; | A24-B7-C3; |
| A24-B7-C4; | A24-B7-C5; | A24-B7-C6; | A24-B7-C7; | A24-B7-C8; | A24-B7-C9; |
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| A25-B7-C7; | A25-B7-C8; | A25-B7-C9; | A26-B7-C1; | A26-B7-C2; | A26-B7-C3; |
| A26-B7-C4; | A26-B7-C5; | A26-B7-C6; | A26-B7-C7; | A26-B7-C8; | A26-B7-C9; |
| A27-B7-C1; | A27-B7-C2; | A27-B7-C3; | A27-B7-C4; | A27-B7-C5; | A27-B7-C6; |
| A27-B7-C7; | A27-B7-C8; | A27-B7-C9; | A28-B7-C1; | A28-B7-C2; | A28-B7-C3; |
| A28-B7-C4; | A28-B7-C5; | A28-B7-C6; | A28-B7-C7; | A28-B7-C8; | A28-B7-C9; |
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| A30-B7-C4; | A30-B7-C5; | A30-B7-C6; | A30-B7-C7; | A30-B7-C8; | A30-B7-C9; |
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| A31-B7-C7; | A31-B7-C8; | A31-B7-C9; | A32-B7-C1; | A32-B7-C2; | A32-B7-C3; |
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| A35-B7-C1; | A35-B7-C2; | A35-B7-C3; | A35-B7-C4; | A35-B7-C5; | A35-B7-C6; |
| A35-B7-C7; | A35-B7-C8; | A35-B7-C9; | A36-B7-C1; | A36-B7-C2; | A36-B7-C3; |
| A36-B7-C4; | A36-B7-C5; | A36-B7-C6; | A36-B7-C7; | A36-B7-C8; | A36-B7-C9; |
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| A37-B7-C7; | A37-B7-C8; | A37-B7-C9; | A38-B7-C1; | A38-B7-C2; | A38-B7-C3; |
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| A39-B7-C7; | A39-B7-C8; | A39-B7-C9; | A40-B7-C1; | A40-B7-C2; | A40-B7-C3; |
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| A43-B7-C7; | A43-B7-C8; | A43-B7-C9; | A44-B7-C1; | A44-B7-C2; | A44-B7-C3; |
| A44-B7-C4; | A44-B7-C5; | A44-B7-C6; | A44-B7-C7; | A44-B7-C8; | A44-B7-C9; |
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| A45-B7-C7; | A45-B7-C8; | A45-B7-C9; | A46-B7-C1; | A46-B7-C2; | A46-B7-C3; |
| A46-B7-C4; | A46-B7-C5; | A46-B7-C6; | A46-B7-C7; | A46-B7-C8; | A46-B7-C9; |
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| A47-B7-C7; | A47-B7-C8; | A47-B7-C9; | A48-B7-C1; | A48-B7-C2; | A48-B7-C3; |
| A48-B7-C4; | A48-B7-C5; | A48-B7-C6; | A48-B7-C7; | A48-B7-C8; | A48-B7-C9; |
| A49-B7-C1; | A49-B7-C2; | A49-B7-C3; | A49-B7-C4; | A49-B7-C5; | A49-B7-C6; |

| A49-B7-C7; | A49-B7-C8;               | A49-B7-C9; | A50-B7-C1; | A50-B7-C2; | A50-B7-C3; |
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| A50-B7-C4; | A50-B7-C5;               | A50-B7-C6; | A50-B7-C7; | A50-B7-C8; | A50-B7-C9; |
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| A51-B7-C7; | A51-B7-C8;               | A51-B7-C9; | A52-B7-C1; | A52-B7-C2; | A52-B7-C3; |
| A52-B7-C4; | A52-B7-C5;               | A52-B7-C6; | A52-B7-C7; | A52-B7-C8; | A52-B7-C9; |
| A53-B7-C4; | A52-B7-C3;<br>A53-B7-C2; | A53-B7-C3; | A53-B7-C4; | A53-B7-C5; | A53-B7-C6; |
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| A53-B7-C7; | A53-B7-C8;               | A53-B7-C9; | A54-B7-C1; | A54-B7-C2; | A54-B7-C3; |
| A54-B7-C4; | A54-B7-C5;               | A54-B7-C6; | A54-B7-C7; | A54-B7-C8; | A54-B7-C9; |
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| A55-B7-C7; | A55-B7-C8;               | A55-B7-C9; | A56-B7-C1; | A56-B7-C2; | A56-B7-C3; |
| A56-B7-C4; | A56-B7-C5;               | A56-B7-C6; | A56-B7-C7; | A56-B7-C8; | A56-B7-C9; |
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| A57-B7-C7; | A57-B7-C8;               | A57-B7-C9; | A58-B7-C1; | A58-B7-C2; | A58-B7-C3; |
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| A59-B7-C7; | A59-B7-C8;               | A59-B7-C9; | A60-B7-C1; | A60-B7-C2; | A60-B7-C3; |
| A60-B7-C4; | A60-B7-C5;               | A60-B7-C6; | A60-B7-C7; | A60-B7-C8; | A60-B7-C9; |
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| A61-B7-C7; | A61-B7-C8;               | A61-B7-C9; | A62-B7-C1; | A62-B7-C2; | A62-B7-C3; |
| A62-B7-C4; | A62-B7-C5;               | A62-B7-C6; | A62-B7-C7; | A62-B7-C8; | A62-B7-C9; |
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| A63-B7-C7; | A63-B7-C8;               | A63-B7-C9; | A64-B7-C1; | A64-B7-C2; | A64-B7-C3; |
| A64-B7-C4; | A64-B7-C5;               | A64-B7-C6; | A64-B7-C7; | A64-B7-C8; | A64-B7-C9; |
| A65-B7-C1; | A65-B7-C2;               | A65-B7-C3; | A65-B7-C4; | A65-B7-C5; | A65-B7-C6; |
| A65-B7-C7; | A65-B7-C8;               | A65-B7-C9; | A66-B7-C1; | A66-B7-C2; | A66-B7-C3; |
| A66-B7-C4; | A66-B7-C5;               | A66-B7-C6; | A66-B7-C7; | A66-B7-C8; | A66-B7-C9; |
| A67-B7-C1; | A67-B7-C2;               | A67-B7-C3; | A67-B7-C4; | A67-B7-C5; | A67-B7-C6; |
| A67-B7-C7; | A67-B7-C8;               | A67-B7-C9; | A68-B7-C1; | A68-B7-C2; | A68-B7-C3; |
| A68-B7-C4; | A68-B7-C5;               | A68-B7-C6; | A68-B7-C7; | A68-B7-C8; | A68-B7-C9; |
| A69-B7-C1; | A69-B7-C2;               | A69-B7-C3; | A69-B7-C4; | A69-B7-C5; | A69-B7-C6; |
| A69-B7-C7; | A69-B7-C8;               | A69-B7-C9; | A70-B7-C1; | A70-B7-C2; | A70-B7-C3; |
| A70-B7-C4; | A70-B7-C5;               | A70-B7-C6; | A70-B7-C7; | A70-B7-C8; | A70-B7-C9; |
| A71-B7-C1; | A71-B7-C2;               | A71-B7-C3; | A71-B7-C4; | A71-B7-C5; | A71-B7-C6; |
| A71-B7-C7; | A71-B7-C8;               | A71-B7-C9; | A1-B8-C1;  | A1-B8-C2;  | A1-B8-C3;  |
| A1-B8-C4;  | A1-B8-C5;                | A1-B8-C6;  | AI-B8-C7;  | A1-B8-C8;  | A1-B8-C9;  |
| A2-B8-C1;  | A2-B8-C2;                | A2-B8-C3;  | A2-B8-C4;  | A2-B8-C5;  | A2-B8-C6;  |
| A2-B8-C7;  | A2-B8-C8;                | A2-B8-C9;  | A3-B8-C1;  | A3-B8-C2;  | A3-B8-C3;  |
| A3-B8-C4;  | A3-B8-C5;                | A3-B8-C6;  | A3-B8-C7;  | A3-B8-C8;  | A3-B8-C9;  |
| A4-B8-C1;  | A4-B8-C2;                | A4-B8-C3;  | A4-B8-C4;  | A4-B8-C5;  | A4-B8-C6;  |
| A4-B8-C7;  | A4-B8-C8;                | A4-B8-C9;  | A5-B8-C1;  | A5-B8-C2;  | A5-B8-C3;  |
| A5-B8-C4;  | A5-B8-C5;                | A5-B8-C6;  | A5-B8-C7;  | A5-B8-C8;  | A5-B8-C9;  |
| A6-B8-C1;  | A6-B8-C2;                | A6-B8-C3;  | A6-B8-C4;  | A6-B8-C5;  | A6-B8-C6;  |
| A6-B8-C7;  | A6-B8-C8;                | A6-B8-C9;  | A7-B8-C1;  | A7-B8-C2;  | A7-B8-C3;  |
| A7-B8-C4;  | A7-B8-C5;                | A7-B8-C6;  | A7-B8-C7;  | A7-B8-C8;  | A7-B8-C9;  |
| A8-B8-C1;  | A8-B8-C2;                | A8-B8-C3;  | A8-B8-C4;  | A8-B8-C5;  | A8-B8-C6;  |
| A8-B8-C7;  | A8-B8-C8;                | A8-B8-C9;  | A9-B8-C1;  | A9-B8-C2;  | A9-B8-C3;  |
| A9-B8-C4;  | A9-B8-C5;                | A9-B8-C6;  | A9-B8-C7;  | A9-B8-C8;  | A9-B8-C9;  |
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| A10-B8-C7; | A10-B8-C8;               | A10-B8-C9; | A11-B8-C1; | A11-B8-C2; | A11-B8-C3; |
| A11-B8-C4; | A11-B8-C5;               | A11-B8-C6; | A11-B8-C7; | A11-B8-C8; | A11-B8-C9; |
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| A12-B8-C7; | A12-B8-C8;               | A12-B8-C9; | A13-B8-C1; | A13-B8-C2; | A13-B8-C3; |
| A13-B8-C4; | A13-B8-C5;               | A13-B8-C6; | A13-B8-C7; | A13-B8-C8; | A13-B8-C9; |
| A14-B8-C1; | A14-B8-C2;               | A14-B8-C3; | A14-B8-C4; | A14-B8-C5; | A14-B8-C6; |
| A14-B8-C7; | A14-B8-C8;               | A14-B8-C9; | A15-B8-C1; | A15-B8-C2; | A15-B8-C3; |

| A15-B8-C4; | A15-B8-C5; | A15-B8-C6; | A15-B8-C7; | A15-B8-C8; | A15-B8-C9; |
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| A16-B8-C7; | A16-B8-C8; | A16-B8-C9; | A17-B8-C1; | A17-B8-C2; | A17-B8-C3; |
| A17-B8-C4; | A17-B8-C5; | A17-B8-C6; | A17-B8-C7; | A17-B8-C8; | A17-B8-C9; |
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| A18-B8-C7; | A18-B8-C8; | A18-B8-C9; | A19-B8-C1; | A19-B8-C2; | A19-B8-C3; |
| A19-B8-C4; | A19-B8-C5; | A19-B8-C6; | A19-B8-C7; | A19-B8-C8; | A19-B8-C9; |
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| A20-B8-C7; | A20-B8-C8; | A20-B8-C9; | A21-B8-C1; | A21-B8-C2; | A21-B8-C3; |
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| A22-B8-C7; | A22-B8-C8; | A22-B8-C9; | A23-B8-C1; | A23-B8-C2; | A23-B8-C3; |
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| A24-B8-C1; | A24-B8-C2; | A24-B8-C3; | A24-B8-C4; | A24-B8-C5; | A24-B8-C6; |
| A24-B8-C7; | A24-B8-C8; | A24-B8-C9; | A25-B8-C1; | A25-B8-C2; | A25-B8-C3; |
| A25-B8-C4; | A25-B8-C5; | A25-B8-C6; | A25-B8-C7; | A25-B8-C8; | A25-B8-C9; |
| A26-B8-C1; | A26-B8-C2; | A26-B8-C3; | A26-B8-C4; | A26-B8-C5; | A26-B8-C6; |
| A26-B8-C7; | A26-B8-C8; | A26-B8-C9; | A27-B8-C1; | A27-B8-C2; | A27-B8-C3; |
| A27-B8-C4; | A27-B8-C5; | A27-B8-C6; | A27-B8-C7; | A27-B8-C8; | A27-B8-C9; |
| A28-B8-C1; | A28-B8-C2; | A28-B8-C3; | A28-B8-C4; | A28-B8-C5; | A28-B8-C6; |
| A28-B8-C7; | A28-B8-C8; | A28-B8-C9; | A29-B8-C1; | A29-B8-C2; | A29-B8-C3; |
| A29-B8-C4; | A29-B8-C5; | A29-B8-C6; | A29-B8-C7; | A29-B8-C8; | A29-B8-C9; |
| A30-B8-C1; | A30-B8-C2; | A30-B8-C3; | A30-B8-C4; | A30-B8-C5; | A30-B8-C6; |
| A30-B8-C7; | A30-B8-C8; | A30-B8-C9; | A31-B8-C1; | A31-B8-C2; | A31-B8-C3; |
| A31-B8-C4; | A31-B8-C5; | A31-B8-C6; | A31-B8-C7; | A31-B8-C8; | A31-B8-C9; |
| A32-B8-C1; | A32-B8-C2; | A32-B8-C3: | A32-B8-C4; | A32-B8-C5; | A32-B8-C6; |
| A32-B8-C7; | A32-B8-C8; | A32-B8-C9; | A33-B8-C1; | A33-B8-C2; | A33-B8-C3; |
| A33-B8-C4; | A33-B8-C5; | A33-B8-C6; | A33-B8-C7; | A33-B8-C8; | A33-B8-C9; |
| A34-B8-C1; | A34-B8-C2; | A34-B8-C3; | A34-B8-C4; | A34-B8-C5; | A34-B8-C6; |
| A34-B8-C7; | A34-B8-C8; | A34-B8-C9; | A35-B8-C1; | A35-B8-C2; | A35-B8-C3; |
| A35-B8-C4; | A35-B8-C5; | A35-B8-C6; | A35-B8-C7; | A35-B8-C8; | A35-B8-C9; |
| A36-B8-C1; | A36-B8-C2; | A36-B8-C3; | A36-B8-C4; | A36-B8-C5; | A36-B8-C6; |
| A36-B8-C7; | A36-B8-C8; | A36-B8-C9; | A37-B8-C1; | A37-B8-C2; | A37-B8-C3; |
| A37-B8-C4; | A37-B8-C5; | A37-B8-C6; | A37-B8-C7; | A37-B8-C8; | A37-B8-C9; |
| A38-B8-C1; | A38-B8-C2; | A38-B8-C3; | A38-B8-C4; | A38-B8-C5; | A38-B8-C6; |
| A38-B8-C7; | A38-B8-C8; | A38-B8-C9; | A39-B8-C1; | A39-B8-C2; | A39-B8-C3; |
| A39-B8-C4; | A39-B8-C5; | A39-B8-C6; | A39-B8-C7; | A39-B8-C8; | A39-B8-C9; |
| A40-B8-C1; | A40-B8-C2; | A40-B8-C3; | A40-B8-C4; | A40-B8-C5; | A40-B8-C6; |
| A40-B8-C7; | A40-B8-C8; | A40-B8-C9; | A41-B8-C1; | A41-B8-C2; | A41-B8-C3; |
| A41-B8-C4; | A41-B8-C5; | A41-B8-C6; | A41-B8-C7; | A41-B8-C8; | A41-B8-C9; |
| A42-B8-C1; | A42-B8-C2; | A42-B8-C3; | A42-B8-C4; | A42-B8-C5; | A42-B8-C6; |
| A42-B8-C7; | A42-B8-C8; | A42-B8-C9; | A43-B8-C1; | A43-B8-C2; | A43-B8-C3; |
| A43-B8-C4; | A43-B8-C5; | A43-B8-C6; | A43-B8-C7; | A43-B8-C8; | A43-B8-C9; |
| A44-B8-C1; | A44-B8-C2; | A44-B8-C3; | A44-B8-C4; | A44-B8-C5; | A44-B8-C6; |
| A44-B8-C7; | A44-B8-C8; | A44-B8-C9; | A45-B8-C1; | A45-B8-C2; | A45-B8-C3; |
| A45-B8-C4; | A45-B8-C5; | A45-B8-C6; | A45-B8-C7; | A45-B8-C8; | A45-B8-C9; |
| A46-B8-C1; | A46-B8-C2; | A46-B8-C3; | A46-B8-C4; | A46-B8-C5; | A46-B8-C6; |
| A46-B8-C7; | A46-B8-C8; | A46-B8-C9; | A47-B8-C1; | A47-B8-C2; | A47-B8-C3; |
| A47-B8-C4; | A47-B8-C5; | A47-B8-C6; | A47-B8-C7; | A47-B8-C8; | A47-B8-C9; |
| A48-B8-C1; | A48-B8-C2; | A48-B8-C3; | A48-B8-C4; | A48-B8-C5; | A48-B8-C6; |
| A48-B8-C7; | A48-B8-C8; | A48-B8-C9; | A49-B8-C1; | A49-B8-C2; | A49-B8-C3; |
| A49-B8-C4; | A49-B8-C5; | A49-B8-C6; | A49-B8-C7; | A49-B8-C8; | A49-B8-C9; |
| A50-B8-C1; | A50-B8-C2; | A50-B8-C3; | A50-B8-C4; | A50-B8-C5; | A50-B8-C6; |
| A50-B8-C7; | A50-B8-C8; | A50-B8-C9; | A51-B8-C1; | A51-B8-C2; | A51-B8-C3; |
| A51-B8-C4; | A51-B8-C5; | A51-B8-C6; | A51-B8-C7; | A51-B8-C8; | A51-B8-C9; |
|            |            |            |            |            |            |

| A52-B8-C1; | A52-B8-C2; | A52-B8-C3; | A52-B8-C4; | A52-B8-C5;               | A52-B8-C6; |
|------------|------------|------------|------------|--------------------------|------------|
|            |            | A52-B8-C9; | A53-B8-C1; | A53-B8-C2;               | A53-B8-C3; |
| A52-B8-C7; | A52-B8-C8; |            | '          |                          |            |
| A53-B8-C4; | A53-B8-C5; | A53-B8-C6; | A53-B8-C7; | A53-B8-C8;               | A53-B8-C9; |
| A54-B8-C1; | A54-B8-C2; | A54-B8-C3; | A54-B8-C4; | A54-B8-C5;               | A54-B8-C6; |
| A54-B8-C7; | A54-B8-C8; | A54-B8-C9; | A55-B8-C1; | A55-B8-C2;               | A55-B8-C3; |
| A55-B8-C4; | A55-B8-C5; | A55-B8-C6; | A55-B8-C7; | A55-B8-C8;               | A55-B8-C9; |
| A56-B8-C1; | A56-B8-C2; | A56-B8-C3; | A56-B8-C4; | A56-B8-C5;               | A56-B8-C6; |
| A56-B8-C7; | A56-B8-C8; | A56-B8-C9; | A57-B8-C1; | A57-B8-C2;               | A57-B8-C3; |
| A57-B8-C4; | A57-B8-C5; | A57-B8-C6; | A57-B8-C7; | A57-B8-C8;               | A57-B8-C9; |
| A58-B8-C1; | A58-B8-C2; | A58-B8-C3; | A58-B8-C4; | A58-B8-C5;               | A58-B8-C6; |
| A58-B8-C7; | A58-B8-C8; | A58-B8-C9; | A59-B8-C1; | A59-B8-C2;               | A59-B8-C3; |
| A59-B8-C4; | A59-B8-C5; | A59-B8-C6; | A59-B8-C7; | A59-B8-C8;               | A59-B8-C9; |
| A60-B8-C1; | A60-B8-C2; | A60-B8-C3; | A60-B8-C4; | A60-B8-C5;               | A60-B8-C6; |
| A60-B8-C7; | A60-B8-C8; | A60-B8-C9; | A61-B8-C1; | A61-B8-C2;               | A61-B8-C3; |
| A61-B8-C4; | A61-B8-C5; | A61-B8-C6; | A61-B8-C7; | A61-B8-C8;               | A61-B8-C9; |
| A62-B8-C1; | A62-B8-C2; | A62-B8-C3; | A62-B8-C4; | A62-B8-C5;               | A62-B8-C6; |
| A62-B8-C7; | A62-B8-C8; | A62-B8-C9; | A63-B8-C1; | A63-B8-C2;               | A63-B8-C3; |
| A63-B8-C4; | A63-B8-C5; | A63-B8-C6; | A63-B8-C7; | A63-B8-C8;               | A63-B8-C9; |
| A64-B8-C1; | A64-B8-C2; | A64-B8-C3; | A64-B8-C4; | A64-B8-C5;               | A64-B8-C6; |
| A64-B8-C7; | A64-B8-C8: | A64-B8-C9: | A65-B8-C1; | A65-B8-C2;               | A65-B8-C3; |
| A65-B8-C4; | A65-B8-C5; | A65-B8-C6; | A65-B8-C7; | A65-B8-C8;               | A65-B8-C9; |
|            | A66-B8-C2; | A66-B8-C3; | A66-B8-C4; |                          | A66-B8-C6; |
| A66-B8-C1; |            |            |            | A66-B8-C5;               |            |
| A66-B8-C7; | A66-B8-C8; | A66-B8-C9; | A67-B8-C1; | A67-B8-C2;               | A67-B8-C3; |
| A67-B8-C4; | A67-B8-C5; | A67-B8-C6; | A67-B8-C7; | A67-B8-C8;               | A67-B8-C9; |
| A68-B8-C1; | A68-B8-C2; | A68-B8-C3; | A68-B8-C4; | A68-B8-C5;               | A68-B8-C6; |
| A68-B8-C7; | A68-B8-C8; | A68-B8-C9; | A69-B8-C1; | A69-B8-C2;               | A69-B8-C3; |
| A69-B8-C4; | A69-B8-C5; | A69-B8-C6; | A69-B8-C7; | A69-B8-C8;               | A69-B8-C9; |
| A70-B8-C1; | A70-B8-C2; | A70-B8-C3; | A70-B8-C4; | A70-B8-C5;               | A70-B8-C6; |
| A70-B8-C7; | A70-B8-C8; | A70-B8-C9; | A71-B8-C1; | A71-B8-C2;               | A71-B8-C3; |
| A71-B8-C4; | A71-B8-C5; | A71-B8-C6; | A71-B8-C7; | A71-B8-C8;               | A71-B8-C9; |
| A1-B9-C1;  | A1-B9-C2;  | A1-B9-C3;  | A1-B9-C4;  | A1-B9-C5;                | A1-B9-C6;  |
| A1-B9-C7;  | A1-B9-C8;  | A1-B9-C9;  | A2-B9-C1;  | A2-B9-C2;                | A2-B9-C3;  |
| A2-B9-C4;  | A2-B9-C5;  | A2-B9-C6;  | A2-B9-C7;  | A2-B9-C8;                | A2-B9-C9;  |
| A3-B9-C1;  | A3-B9-C2;  | A3-B9-C3;  | A3-B9-C4;  | A3-B9-C5;                | A3-B9-C6;  |
| A3-B9-C7;  | A3-B9-C8;  | A3-B9-C9;  | A4-B9-C1;  | A4-B9-C2;                | A4-B9-C3;  |
| A4-B9-C4;  | A4-B9-C5;  | A4-B9-C6;  | A4-B9-C7;  | A4-B9-C8;                | A4-B9-C9;  |
| A5-B9-C1;  | A5-B9-C2;  | A5-B9-C3;  | A5-B9-C4;  | A5-B9-C5;                | A5-B9-C6;  |
| A5-B9-C7;  | A5-B9-C8;  | A5-B9-C9:  | A6-B9-C1:  | A6-B9-C2;                | A6-B9-C3;  |
| A6-B9-C4;  | A6-B9-C5;  | A6-B9-C6;  | A6-B9-C7;  | A6-B9-C8;                | A6-B9-C9;  |
| A7-B9-C1;  | A7-B9-C2;  | A7-B9-C3;  | A7-B9-C4;  | A7-B9-C5;                | A7-B9-C6;  |
| A7-B9-C7;  | A7-B9-C8;  | A7-B9-C9;  | A8-B9-C1;  | A8-B9-C2;                | A8-B9-C3;  |
| A8-B9-C4;  | A8-B9-C5;  | A8-B9-C6;  | A8-B9-C7;  | A8-B9-C8;                | A8-B9-C9;  |
| A9-B9-C1;  | A9-B9-C2;  | A9-B9-C3;  | A9-B9-C4;  | A9-B9-C5;                | A9-B9-C6;  |
| A9-B9-C7;  | A9-B9-C2;  | A9-B9-C9;  | A10-B9-C1; | A10-B9-C2;               | A10-B9-C3; |
| A10-B9-C4; | A10-B9-C5; | A10-B9-C6; | A10-B9-C1; | A10-B9-C2;<br>A10-B9-C8; | A10-B9-C9; |
| •          | •          |            |            |                          |            |
| A11-B9-C1; | A11-B9-C2; | A11-B9-C3; | A11-B9-C4; | A11-B9-C5;               | A11-B9-C6; |
| A11-B9-C7; | A11-B9-C8; | A11-B9-C9; | A12-B9-C1; | A12-B9-C2;               | A12-B9-C3; |
| A12-B9-C4; | A12-B9-C5; | A12-B9-C6; | A12-B9-C7; | A12-B9-C8;               | A12-B9-C9; |
| A13-B9-C1; | A13-B9-C2; | A13-B9-C3; | A13-B9-C4; | A13-B9-C5;               | A13-B9-C6; |
| A13-B9-C7; | A13-B9-C8; | A13-B9-C9; | A14-B9-C1; | A14-B9-C2;               | A14-B9-C3; |
| A14-B9-C4; | A14-B9-C5; | A14-B9-C6; | A14-B9-C7; | A14-B9-C8;               | A14-B9-C9; |
| A15-B9-C1; | A15-B9-C2; | A15-B9-C3; | A15-B9-C4; | A15-B9-C5;               | A15-B9-C6; |
| A15-B9-C7; | A15-B9-C8; | A15-B9-C9; | A16-B9-C1; | A16-B9-C2;               | A16-B9-C3; |
| A16-B9-C4; | A16-B9-C5; | A16-B9-C6; | A16-B9-C7; | A16-B9-C8;               | A16-B9-C9; |
| A17-B9-C1; | A17-B9-C2; | A17-B9-C3; | A17-B9-C4; | A17-B9-C5;               | A17-B9-C6; |
|            |            |            |            |                          |            |

| A 17 DO C7: | A 17 DO CO. | A 17 DO CO: | A 19 DO C1. | A18 B0 C2  | A18-B9-C3; |
|-------------|-------------|-------------|-------------|------------|------------|
| A17-B9-C7;  | A17-B9-C8;  | A17-B9-C9;  | A18-B9-C1;  | A18-B9-C2; |            |
| A18-B9-C4;  | A18-B9-C5;  | A18-B9-C6;  | A18-B9-C7;  | A18-B9-C8; | A18-B9-C9; |
| A19-B9-C1;  | A19-B9-C2;  | A19-B9-C3;  | A19-B9-C4;  | A19-B9-C5; | A19-B9-C6; |
| A19-B9-C7;  | A19-B9-C8;  | A19-B9-C9;  | A20-B9-C1;  | A20-B9-C2; | A20-B9-C3; |
| A20-B9-C4;  | A20-B9-C5;  | A20-B9-C6;  | A20-B9-C7;  | A20-B9-C8; | A20-B9-C9; |
| A21-B9-C1;  | A21-B9-C2;  | A21-B9-C3;  | A21-B9-C4;  | A21-B9-C5; | A21-B9-C6; |
| A21-B9-C7;  | A21-B9-C8;  | A21-B9-C9;  | A22-B9-C1;  | A22-B9-C2; | A22-B9-C3; |
| A22-B9-C4;  | A22-B9-C5;  | A22-B9-C6;  | A22-B9-C7;  | A22-B9-C8; | A22-B9-C9; |
| A23-B9-C1;  | A23-B9-C2;  | A23-B9-C3;  | A23-B9-C4;  | A23-B9-C5; | A23-B9-C6; |
| A23-B9-C7;  | A23-B9-C8;  | A23-B9-C9;  | A24-B9-C1;  | A24-B9-C2; | A24-B9-C3; |
| A24-B9-C4;  | A24-B9-C5;  | A24-B9-C6;  | A24-B9-C7;  | A24-B9-C8; | A24-B9-C9; |
| A25-B9-C1;  | A25-B9-C2;  | A25-B9-C3;  | A25-B9-C4;  | A25-B9-C5; | A25-B9-C6; |
| A25-B9-C7;  | A25-B9-C8;  | A25-B9-C9;  | A26-B9-C1;  | A26-B9-C2; | A26-B9-C3; |
| A26-B9-C4;  | A26-B9-C5;  | A26-B9-C6;  | A26-B9-C7;  | A26-B9-C8; | A26-B9-C9; |
| A27-B9-C1;  | A27-B9-C2;  | A27-B9-C3;  | A27-B9-C4;  | A27-B9-C5; | A27-B9-C6; |
| A27-B9-C7;  | A27-B9-C8;  | A27-B9-C9;  | A28-B9-C1;  | A28-B9-C2; | A28-B9-C3; |
| A28-B9-C4;  | A28-B9-C5;  | A28-B9-C6;  | A28-B9-C7;  | A28-B9-C8; | A28-B9-C9; |
| A29-B9-C1;  | A29-B9-C2;  | A29-B9-C3;  | A29-B9-C4;  | A29-B9-C5; | A29-B9-C6; |
| A29-B9-C7;  | A29-B9-C8;  | A29-B9-C9;  | A30-B9-C1;  | A30-B9-C2; | A30-B9-C3; |
| A30-B9-C4;  | A30-B9-C5;  | A30-B9-C6;  | A30-B9-C7;  | A30-B9-C8; | A30-B9-C9; |
| A31-B9-C1;  | A31-B9-C2;  | A31-B9-C3;  | A31-B9-C4;  | A31-B9-C5; | A31-B9-C6; |
| A31-B9-C7;  | A31-B9-C8;  | A31-B9-C9;  | A32-B9-C1;  | A32-B9-C2; | A32-B9-C3; |
| A32-B9-C4;  | A32-B9-C5;  | A32-B9-C6;  | A32-B9-C7;  | A32-B9-C8; | A32-B9-C9; |
| A33-B9-C1;  | A33-B9-C2;  | A33-B9-C3;  | A33-B9-C4;  | A33-B9-C5; | A33-B9-C6; |
| A33-B9-C1;  | A33-B9-C8;  | A33-B9-C9;  | A34-B9-C1;  | A34-B9-C2; | A34-B9-C3; |
| •           |             |             |             | •          |            |
| A34-B9-C4;  | A34-B9-C5;  | A34-B9-C6;  | A34-B9-C7;  | A34-B9-C8; | A34-B9-C9; |
| A35-B9-C1;  | A35-B9-C2;  | A35-B9-C3;  | A35-B9-C4;  | A35-B9-C5; | A35-B9-C6; |
| A35-B9-C7;  | A35-B9-C8;  | A35-B9-C9;  | A36-B9-C1;  | A36-B9-C2; | A36-B9-C3; |
| A36-B9-C4;  | A36-B9-C5;  | A36-B9-C6;  | A36-B9-C7;  | A36-B9-C8; | A36-B9-C9; |
| A37-B9-C1;  | A37-B9-C2;  | A37-B9-C3;  | A37-B9-C4;  | A37-B9-C5; | A37-B9-C6; |
| A37-B9-C7;  | A37-B9-C8;  | A37-B9-C9;  | A38-B9-C1;  | A38-B9-C2; | A38-B9-C3; |
| A38-B9-C4;  | A38-B9-C5;  | A38-B9-C6;  | A38-B9-C7;  | A38-B9-C8; | A38-B9-C9; |
| A39-B9-C1;  | A39-B9-C2;  | A39-B9-C3;  | A39-B9-C4;  | A39-B9-C5; | A39-B9-C6; |
| A39-B9-C7;  | A39-B9-C8;  | A39-B9-C9;  | A40-B9-C1;  | A40-B9-C2; | A40-B9-C3; |
| A40-B9-C4;  | A40-B9-C5;  | A40-B9-C6;  | A40-B9-C7;  | A40-B9-C8; | A40-B9-C9; |
| A41-B9-C1;  | A41-B9-C2;  | A41-B9-C3;  | A41-B9-C4;  | A41-B9-C5; | A41-B9-C6; |
| A41-B9-C7;  | A41-B9-C8;  | A41-B9-C9;  | A42-B9-C1;  | A42-B9-C2; | A42-B9-C3; |
| A42-B9-C4;  | A42-B9-C5;  | A42-B9-C6;  | A42-B9-C7;  | A42-B9-C8; | A42-B9-C9; |
| A43-B9-C1;  | A43-B9-C2;  | A43-B9-C3;  | A43-B9-C4;  | A43-B9-C5; | A43-B9-C6; |
| A43-B9-C7;  | A43-B9-C8;  | A43-B9-C9;  | A44-B9-C1;  | A44-B9-C2; | A44-B9-C3; |
| A44-B9-C4;  | A44-B9-C5;  | A44-B9-C6;  | A44-B9-C7;  | A44-B9-C8; | A44-B9-C9; |
| A45-B9-C1;  | A45-B9-C2;  | A45-B9-C3;  | A45-B9-C4;  | A45-B9-C5; | A45-B9-C6; |
| A45-B9-C7;  | A45-B9-C8;  | A45-B9-C9;  | A46-B9-C1;  | A46-B9-C2; | A46-B9-C3; |
| A46-B9-C4;  | A46-B9-C5;  | A46-B9-C6;  | A46-B9-C7;  | A46-B9-C8; | A46-B9-C9; |
| A47-B9-C1;  | A47-B9-C2;  | A47-B9-C3;  | A47-B9-C4;  | A47-B9-C5; | A47-B9-C6; |
| A47-B9-C7;  | A47-B9-C8;  | A47-B9-C9;  | A48-B9-C1;  | A48-B9-C2; | A48-B9-C3; |
| A48-B9-C4;  | A48-B9-C5;  | A48-B9-C6;  | A48-B9-C7;  | A48-B9-C8; | A48-B9-C9; |
| A49-B9-C1;  | A49-B9-C2;  | A49-B9-C3;  | A49-B9-C4;  | A49-B9-C5; | A49-B9-C6; |
| A49-B9-C7;  | A49-B9-C8;  | A49-B9-C9;  | A50-B9-C1;  | A50-B9-C2; | A50-B9-C3; |
| A50-B9-C4;  | A50-B9-C5;  | A50-B9-C6;  | A50-B9-C7;  | A50-B9-C8; | A50-B9-C9; |
| A51-B9-C1;  | A51-B9-C2;  | A51-B9-C3;  | A51-B9-C4;  | A51-B9-C5; | A51-B9-C6; |
| A51-B9-C7;  | A51-B9-C8;  | A51-B9-C9;  | A52-B9-C1;  | A52-B9-C2; | A52-B9-C3; |
| A52-B9-C4;  | A52-B9-C5;  | A52-B9-C6;  | A52-B9-C7;  | A52-B9-C8; | A52-B9-C9; |
| A53-B9-C1;  | A53-B9-C2;  | A53-B9-C3;  | A53-B9-C4;  | A53-B9-C5; | A53-B9-C6; |
| A53-B9-C7;  | A53-B9-C8;  | A53-B9-C9;  | A54-B9-C1;  | A54-B9-C2; | A54-B9-C3; |
|             | •           | •           | ,           | *          | ,          |

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|--------------|--------------------------|--------------|--------------|--------------|--------------|
| A54-B9-C4;   | A54-B9-C5;               | A54-B9-C6;   | A54-B9-C7;   | A54-B9-C8;   | A54-B9-C9;   |
| A55-B9-C1;   | A55-B9-C2;               | A55-B9-C3;   | A55-B9-C4;   | A55-B9-C5;   | A55-B9-C6;   |
| A55-B9-C7;   | A55-B9-C8;               | A55-B9-C9;   | A56-B9-C1;   | A56-B9-C2;   | A56-B9-C3;   |
| A56-B9-C4;   | A56-B9-C5;               | A56-B9-C6;   | A56-B9-C7;   | A56-B9-C8;   | A56-B9-C9;   |
| A57-B9-C1;   | A57-B9-C2;               | A57-B9-C3;   | A57-B9-C4;   | A57-B9-C5;   | A57-B9-C6;   |
| A57-B9-C7;   | A57-B9-C8;               | A57-B9-C9;   | A58-B9-C1;   | A58-B9-C2;   | A58-B9-C3;   |
| A58-B9-C4;   | A58-B9-C5;               | A58-B9-C6;   | A58-B9-C7;   | A58-B9-C8;   | A58-B9-C9;   |
| A59-B9-C1;   | A59-B9-C2;               | A59-B9-C3;   | A59-B9-C4;   | A59-B9-C5;   | A59-B9-C6;   |
| A59-B9-C7;   | A59-B9-C8;               | A59-B9-C9;   | A60-B9-C1;   | A60-B9-C2;   | A60-B9-C3;   |
| A60-B9-C4;   | A60-B9-C5;               | A60-B9-C6;   | A60-B9-C7;   | A60-B9-C8;   | A60-B9-C9;   |
| A61-B9-C1;   | A61-B9-C2;               | A61-B9-C3;   | A61-B9-C4;   | A61-B9-C5;   | A61-B9-C6;   |
| A61-B9-C7;   | A61-B9-C8;               | A61-B9-C9;   | A62-B9-C1;   | A62-B9-C2;   | A62-B9-C3;   |
| A62-B9-C4;   | A62-B9-C5;               | A62-B9-C6;   | A62-B9-C7;   | A62-B9-C8;   | A62-B9-C9;   |
| A63-B9-C1;   | A63-B9-C2;               | A63-B9-C3;   | A63-B9-C4;   | A63-B9-C5;   | A63-B9-C6;   |
| A63-B9-C7;   | A63-B9-C8;               | A63-B9-C9;   | A64-B9-C1;   | A64-B9-C2;   | A64-B9-C3;   |
| A64-B9-C4;   | A64-B9-C5;               | A64-B9-C6;   | A64-B9-C7;   | A64-B9-C8;   | A64-B9-C9;   |
| A65-B9-C1;   | A65-B9-C2;               | A65-B9-C3;   | A65-B9-C4;   | A65-B9-C5;   | A65-B9-C6;   |
| A65-B9-C7;   | A65-B9-C8;               | A65-B9-C9;   | A66-B9-C1;   | A66-B9-C2;   | A66-B9-C3;   |
| A66-B9-C4;   | A66-B9-C5;               | A66-B9-C6;   | A66-B9-C7;   | A66-B9-C8;   | A66-B9-C9;   |
| A67-B9-C1;   | A67-B9-C2;               | A67-B9-C3;   | A67-B9-C4;   | A67-B9-C5;   | A67-B9-C6;   |
| A67-B9-C1;   | A67-B9-C2;<br>A67-B9-C8; |              |              |              | A68-B9-C3:   |
| •            |                          | A67-B9-C9;   | A68-B9-C1;   | A68-B9-C2;   |              |
| A68-B9-C4;   | A68-B9-C5;               | A68-B9-C6;   | A68-B9-C7;   | A68-B9-C8;   | A68-B9-C9;   |
| A69-B9-C1;   | A69-B9-C2;               | A69-B9-C3;   | A69-B9-C4;   | A69-B9-C5;   | A69-B9-C6;   |
| A69-B9-C7;   | A69-B9-C8;               | A69-B9-C9;   | A70-B9-C1;   | A70-B9-C2;   | A70-B9-C3;   |
| A70-B9-C4;   | A70-B9-C5;               | A70-B9-C6;   | A70-B9-C7;   | A70-B9-C8;   | A70-B9-C9;   |
| A71-B9-C1;   | A71-B9-C2;               | A71-B9-C3;   | A71-B9-C4;   | A71-B9-C5;   | A71-B9-C6;   |
| A71-B9-C7;   | A71-B9-C8;               | A71-B9-C9;   | A1-B10-C1;   | A1-B10-C2;   | AI-B10-C3;   |
| A1-B10-C4;   | A1-B10-C5;               | A1-B10-C6;   | A1-B10-C7;   | A1-B10-C8;   | AI-B10-C9;   |
| A2-B10-C1;   | A2-B10-C2;               | A2-B10-C3;   | A2-B10-C4;   | A2-B10-C5;   | A2-B10-C6;   |
| A2-B10-C7;   | A2-B10-C8;               | A2-B10-C9;   | A3-B10-C1;   | A3-B10-C2;   | A3-B10-C3;   |
| A3-B10-C4;   | A3-B10-C5;               | A3-B10-C6;   | A3-B10-C7;   | A3-B10-C8;   | A3-B10-C9;   |
| A4-B10-C1;   | A4-B10-C2;               | A4-B10-C3;   | A4-B10-C4;   | A4-B10-C5;   | A4-B10-C6;   |
| A4-B10-C7;   | A4-B10-C8;               | A4-B10-C9;   | A5-B10-C1;   | A5-B10-C2;   | A5-B10-C3;   |
| A5-B10-C4;   | A5-B10-C5;               | A5-B10-C6;   | A5-B10-C7;   | A5-B10-C8;   | A5-B10-C9;   |
| A6-B10-C1;   | A6-B10-C2;               | A6-B10-C3;   | A6-B10-C4;   | A6-B10-C5;   | A6-B10-C6;   |
| A6-B10-C7;   | A6-B10-C8;               | A6-B10-C9;   | A7-B10-C1;   | A7-B10-C2;   | A7-B10-C3;   |
| A7-B10-C4;   | A7-B10-C5;               | A7-B10-C6;   | A7-B10-C7;   | A7-B10-C8;   | A7-B10-C9;   |
| A8-B10-C1;   | A8-B10-C2;               | A8-B10-C3;   | A8-B10-C4;   | A8-B10-C5;   | A8-B10-C6;   |
| A8-B10-C7;   | A8-B10-C8;               | A8-B10-C9;   | A9-B10-C1;   | A9-B10-C2;   | A9-B10-C3;   |
| A9-B10-C4;   | A9-B10-C5;               | A9-B10-C6;   | A9-B10-C7;   | A9-B10-C8;   | A9-B10-C9;   |
| A10-B10-C1;  | A10-B10-C2;              | A10-B10-C3;  | A10-B10-C4;  | A10-B10-C5;  | A10-B10-C6;  |
| A10-B10-C7;  | A10-B10-C8;              | A10-B10-C9;  | A11-B10-C1;  | A11-B10-C2;  | A11-B10-C3;  |
| A11-B10-C4;  | A11-B10-C5;              | A11-B10-C6;  | A11-B10-C7;  | A11-B10-C8;  | A11-B10-C9;  |
| A12-B10-C1;  | A12-B10-C2;              | A12-B10-C3;  | A12-B10-C4;  | A12-B10-C5;  | A12-B10-C6;  |
| A12-B10-C7;  | A12-B10-C8;              | A12-B10-C9;  | A13-B10-C1;  | A13-B10-C2;  | A13-B10-C3;  |
| A13-B10-C4;  | A13-B10-C5;              | A13-B10-C6;  | A13-B10-C7;  | A13-B10-C8;  | A13-B10-C9;  |
| A14-B10-C1;  | A14-B10-C2;              | A14-B10-C3;  | A14-B10-C4;  | A14-B10-C5;  | A14-B10-C6;  |
| A14-B10-C7;  | A14-B10-C8;              | A14-B10-C9;  | A15-B10-C1;  | A15-B10-C2;  | A15-B10-C3;  |
| A15-B10-C4;  | A15-B10-C5;              | A15-B10-C6;  | A15-B10-C7;  | A15-B10-C8;  | A15-B10-C9;  |
| A16-B10-C1;  | A16-B10-C2;              | A16-B10-C3;  | A16-B10-C4;  | A16-B10-C5;  | A16-B10-C6;  |
| A16-B10-C7;  | A16-B10-C8;              | A16-B10-C9;  | A17-B10-C1;  | A17-B10-C2;  | A17-B10-C3;  |
| A17-B10-C4;  | A17-B10-C5;              | A17-B10-C6;  | A17-B10-C7;  | A17-B10-C8;  | A17-B10-C9;  |
| A18-B10-C1;  | A18-B10-C2;              | A18-B10-C3;  | A18-B10-C4;  | A18-B10-C5;  | A18-B10-C6;  |
| A18-B10-C7;  | A18-B10-C8;              | A18-B10-C9;  | A19-B10-C1;  | A19-B10-C3;  | A19-B10-C3;  |
| A19-B10-C4;  | A19-B10-C5;              | A19-B10-C6;  | A19-B10-C1;  | A19-B10-C2;  | A19-B10-C9;  |
| 1117-D10-CT, | 1117-D10-CJ,             | 1117-D10-CU, | 1117-D10-C/, | 1117-D10-Co, | 1117-DIU-C7, |

| A20-B10-C1;                | A20-B10-C2;                | A20-B10-C3;                | A20-B10-C4;                | A20-B10-C5;                | A20-B10-C6;                |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A20-B10-C7;                | A20-B10-C8;                | A20-B10-C9;                | A21-B10-C1;                | A21-B10-C2;                | A21-B10-C3;                |
| A21-B10-C4;                | A21-B10-C5;                | A21-B10-C6;                | A21-B10-C7;                | A21-B10-C8;                | A21-B10-C9;                |
| A22-B10-C1;                | A22-B10-C2;                | A22-B10-C3;                | A22-B10-C4;                | A22-B10-C5;                | A22-B10-C6;                |
| A22-B10-C7;                | A22-B10-C8;                | A22-B10-C9;                | A23-B10-C1;                | A23-B10-C2;                | A23-B10-C3;                |
| A23-B10-C4;                | A23-B10-C5;                | A23-B10-C6;                | A23-B10-C7;                | A23-B10-C8;                | A23-B10-C9;                |
| A24-B10-C1;                | A24-B10-C2;                | A24-B10-C3;                | A24-B10-C4;                | A24-B10-C5;                | A24-B10-C6;                |
| A24-B10-C7;                | A24-B10-C8;                | A24-B10-C9;                | A25-B10-C1;                | A25-B10-C2;                | A25-B10-C3;                |
| A25-B10-C4;                | A25-B10-C5;                | A25-B10-C6;                | A25-B10-C7;                | A25-B10-C8;                | A25-B10-C9;                |
| A26-B10-C1;                | A26-B10-C2;                | A26-B10-C3;                | A26-B10-C4;                | A26-B10-C5;                | A26-B10-C6;                |
| A26-B10-C7;                | A26-B10-C8;                | A26-B10-C9;                | A27-B10-C1;                | A27-B10-C2;                | A27-B10-C3;                |
| A27-B10-C4;                | A27-B10-C5;                | A27-B10-C6;                | A27-B10-C7;                | A27-B10-C8;                | A27-B10-C9;                |
| A28-B10-C1;                | A28-B10-C2;                | A28-B10-C3;                | A28-B10-C4;                | A28-B10-C5;                | A28-B10-C6;                |
| A28-B10-C7;                | A28-B10-C8;                | A28-B10-C9;                | A29-B10-C1;                | A29-B10-C2;                | A29-B10-C3;                |
| A29-B10-C4;                | A29-B10-C5;                | A29-B10-C6;                | A29-B10-C7;                | A29-B10-C8;                | A29-B10-C9;                |
| A30-B10-C1;                | A30-B10-C2;                | A30-B10-C3;                | A30-B10-C4;                | A30-B10-C5;                | A30-B10-C6;                |
| A30-B10-C7;                | A30-B10-C8;                | A30-B10-C9;                | A31-B10-C1;                | A31-B10-C2;                | A31-B10-C3;                |
| A31-B10-C4;                | A31-B10-C5;                | A31-B10-C6;                | A31-B10-C7;                | A31-B10-C8;                | A31-B10-C9;                |
| A32-B10-C1;                | A32-B10-C2;                | A32-B10-C3;                | A32-B10-C4;                | A32-B10-C5;                | A32-B10-C6;                |
| A32-B10-C7;                | A32-B10-C8;                | A32-B10-C9;                | A33-B10-C1;                | A33-B10-C2;                | A33-B10-C3;                |
| A33-B10-C4;                | A33-B10-C5;                | A33-B10-C6;                | A33-B10-C7;                | A33-B10-C8;                | A33-B10-C9;                |
| A34-B10-C1;                | A34-B10-C2;                | A34-B10-C3;                | A34-B10-C4;                | A34-B10-C5;                | A34-B10-C6;                |
| A34-B10-C7;                | A34-B10-C8;                | A34-B10-C9;                | A35-B10-C1;                | A35-B10-C2;                | A35-B10-C3;                |
| A35-B10-C4;                | A35-B10-C5;                | A35-B10-C6;                | A35-B10-C7;                | A35-B10-C8;                | A35-B10-C9;                |
| A36-B10-C1;                | A36-B10-C2;                | A36-B10-C3;                | A36-B10-C4;                | A36-B10-C5;                | A36-B10-C6;                |
| A36-B10-C7;                | A36-B10-C8;                | A36-B10-C9;                | A37-B10-C1;                | A37-B10-C2;                | A37-B10-C3;                |
| A37-B10-C4;                | A37-B10-C5;                | A37-B10-C6;                | A37-B10-C7;                | A37-B10-C8;                | A37-B10-C9;                |
| A38-B10-C1;                | A38-B10-C2;                | A38-B10-C3;                | A38-B10-C4;                | A38-B10-C5;                | A38-B10-C6;                |
| A38-B10-C7;                | A38-B10-C8;                | A38-B10-C9;                | A39-B10-C1;                | A39-B10-C2;                | A39-B10-C3;                |
| A39-B10-C4;                | A39-B10-C5;                | A39-B10-C6;                | A39-B10-C7;                | A39-B10-C8;                | A39-B10-C9;                |
| A40-B10-C1;                | A40-B10-C2;                | A40-B10-C3;                | A40-B10-C4;                | A40-B10-C5;                | A40-B10-C6;                |
| A40-B10-C7;                | A40-B10-C8;                | A40-B10-C9;                | A41-B10-C1;                | A41-B10-C2;                | A41-B10-C3;                |
| A41-B10-C4;                | A41-B10-C5;                | A41-B10-C6;                | A41-B10-C7;                | A41-B10-C8;                | A41-B10-C9;                |
| A42-B10-C1;                | A42-B10-C2;                | A42-B10-C3;                | A42-B10-C4;                | A42-B10-C5;                | A42-B10-C6;                |
| A42-B10-C7;<br>A43-B10-C4; | A42-B10-C8;<br>A43-B10-C5; | A42-B10-C9;                | A43-B10-C1;                | A43-B10-C2;                | A43-B10-C3;                |
| A43-B10-C4;<br>A44-B10-C1; |                            | A43-B10-C6;                | A43-B10-C7;                | A43-B10-C8;                | A43-B10-C9;                |
|                            | A44-B10-C2;                | A44-B10-C3;                | A44-B10-C4;                | A44-B10-C5;                | A44-B10-C6;                |
| A44-B10-C7;<br>A45-B10-C4; | A44-B10-C8;<br>A45-B10-C5; | A44-B10-C9;<br>A45-B10-C6; | A45-B10-C1;<br>A45-B10-C7; | A45-B10-C2;<br>A45-B10-C8: | A45-B10-C3;                |
| A46-B10-C1;                | A46-B10-C2;                | A46-B10-C3;                | A46-B10-C7;                | A46-B10-C5;                | A45-B10-C9;<br>A46-B10-C6; |
| A46-B10-C1;                | A46-B10-C2;                | A46-B10-C3;                | A40-B10-C4;<br>A47-B10-C1; | A40-B10-C3;<br>A47-B10-C2; | A40-B10-C0,<br>A47-B10-C3; |
| A47-B10-C4;                | A47-B10-C5;                | A47-B10-C5;                | A47-B10-C1;                | A47-B10-C2;<br>A47-B10-C8; | A47-B10-C3;<br>A47-B10-C9; |
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| A48-B10-C1;                | A48-B10-C2;                | A48-B10-C9;                | A49-B10-C4;                | A49-B10-C3;                | A49-B10-C3;                |
| A49-B10-C4;                | A49-B10-C5;                | A49-B10-C6;                | A49-B10-C1;                | A49-B10-C2;                | A49-B10-C9;                |
| A50-B10-C1;                | A50-B10-C2;                | A50-B10-C3;                | A50-B10-C4;                | A50-B10-C5;                | A50-B10-C6;                |
| A50-B10-C7;                | A50-B10-C8;                | A50-B10-C9;                | A51-B10-C1;                | A51-B10-C2;                | A51-B10-C3;                |
| A51-B10-C4;                | A51-B10-C5;                | A51-B10-C6;                | A51-B10-C7;                | A51-B10-C8;                | A51-B10-C9;                |
| A52-B10-C1;                | A52-B10-C2;                | A52-B10-C3;                | A52-B10-C4;                | A51-B10-C6;<br>A52-B10-C5; | A52-B10-C6;                |
| A52-B10-C1;                | A52-B10-C2;                | A52-B10-C9;                | A53-B10-C1;                | A53-B10-C3;                | A52-B10-C0;<br>A53-B10-C3; |
| A53-B10-C4;                | A53-B10-C5;                | A53-B10-C6;                | A53-B10-C1;                | A53-B10-C2;<br>A53-B10-C8; | A53-B10-C3;<br>A53-B10-C9; |
| A54-B10-C1;                | A54-B10-C2;                | A54-B10-C3;                | A54-B10-C4;                | A54-B10-C5;                | A54-B10-C6;                |
| A54-B10-C7;                | A54-B10-C8;                | A54-B10-C9;                | A55-B10-C1;                | A55-B10-C2;                | A55-B10-C3;                |
| A55-B10-C4;                | A55-B10-C5;                | A55-B10-C6;                | A55-B10-C7;                | A55-B10-C8;                | A55-B10-C9;                |
| A56-B10-C1;                | A56-B10-C2;                | A56-B10-C3;                | A56-B10-C4;                | A56-B10-C5;                | A56-B10-C6;                |
| <b>,</b>                   | <b>,</b>                   | ,                          | <del></del>                | ,                          | ,                          |

| A56-B10-C7; | A56-B10-C8; | A56-B10-C9; | A57-B10-C1; | A57-B10-C2; | A57-B10-C3; |
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| A57-B10-C4; | A57-B10-C5; | A57-B10-C6; | A57-B10-C7; | A57-B10-C8; | A57-B10-C9; |
| A58-B10-C1; | A58-B10-C2; | A58-B10-C3; | A58-B10-C4; | A58-B10-C5; | A58-B10-C6; |
| A58-B10-C7; | A58-B10-C8; | A58-B10-C9; | A59-B10-C1; | A59-B10-C2; | A59-B10-C3; |
| A59-B10-C4; | A59-B10-C5; | A59-B10-C6; | A59-B10-C7; | A59-B10-C8; | A59-B10-C9; |
| A60-B10-C1; | A60-B10-C2; | A60-B10-C3; | A60-B10-C4; | A60-B10-C5; | A60-B10-C6; |
| A60-B10-C7; | A60-B10-C8; | A60-B10-C9; | A61-B10-C1; | A61-B10-C2; | A61-B10-C3; |
| A61-B10-C4; | A61-B10-C5; | A61-B10-C6; | A61-B10-C7; | A61-B10-C8; | A61-B10-C9; |
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| A62-B10-C7; | A62-B10-C8; | A62-B10-C9; | A63-B10-C1; | A63-B10-C2; | A63-B10-C3; |
| A63-B10-C4; | A63-B10-C5; | A63-B10-C6; | A63-B10-C7; | A63-B10-C8; | A63-B10-C9; |
| A64-B10-C1; | A64-B10-C2; | A64-B10-C3; | A64-B10-C4; | A64-B10-C5; | A64-B10-C6; |
| A64-B10-C7; | A64-B10-C8; | A64-B10-C9; | A65-B10-C1; | A65-B10-C2; | A65-B10-C3; |
| A65-B10-C4; | A65-B10-C5; | A65-B10-C6; | A65-B10-C7; | A65-B10-C8; | A65-B10-C9; |
| A66-B10-C1; | A66-B10-C2; | A66-B10-C3; | A66-B10-C4; | A66-B10-C5; | A66-B10-C6; |
| A66-B10-C7; | A66-B10-C8; | A66-B10-C9; | A67-B10-C1; | A67-B10-C2; | A67-B10-C3; |
| A67-B10-C4; | A67-B10-C5; | A67-B10-C6; | A67-B10-C7; | A67-B10-C8; | A67-B10-C9; |
| A68-B10-C1; | A68-B10-C2; | A68-B10-C3; | A68-B10-C4; | A68-B10-C5; | A68-B10-C6; |
| A68-B10-C7; | A68-B10-C8; | A68-B10-C9; | A69-B10-C1; | A69-B10-C2; | A69-B10-C3; |
| A69-B10-C4; | A69-B10-C5; | A69-B10-C6; | A69-B10-C7; | A69-B10-C8; | A69-B10-C9; |
| A70-B10-C1; | A70-B10-C2; | A70-B10-C3; | A70-B10-C4; | A70-B10-C5; | A70-B10-C6; |
| A70-B10-C7; | A70-B10-C8; | A70-B10-C9; | A71-B10-C1; | A71-B10-C2; | A71-B10-C3; |
| A71-B10-C4; | A71-B10-C5; | A71-B10-C6; | A71-B10-C7; | A71-B10-C8; | A71-B10-C9; |
| A1-B11-C1;  | A1-B11-C2;  | A1-B11-C3;  | A1-B11-C4;  | A1-B11-C5;  | A1-B11-C6;  |
| A1-B11-C7;  | A1-B11-C8;  | A1-B11-C9;  | A2-B11-C1;  | A2-B11-C2;  | A2-B11-C3;  |
| A2-B11-C4;  | A2-B11-C5;  | A2-B11-C6;  | A2-B11-C7;  | A2-B11-C8;  | A2-B11-C9;  |
| A3-B11-C1;  | A3-B11-C2;  | A3-B11-C3;  | A3-B11-C4;  | A3-B11-C5;  | A3-B11-C6;  |
| A3-B11-C7;  | A3-B11-C8;  | A3-B11-C9;  | A4-B11-C1;  | A4-B11-C2;  | A4-B11-C3;  |
| A4-B11-C4;  | A4-B11-C5;  | A4-B11-C6;  | A4-B11-C7;  | A4-B11-C8;  | A4-B11-C9;  |
| A5-B11-C1;  | A5-B11-C2;  | A5-B11-C3;  | A5-B11-C4;  | A5-B11-C5;  | A5-B11-C6;  |
| A5-B11-C7;  | A5-B11-C8;  | A5-B11-C9;  | A6-B11-C1;  | A6-B11-C2;  | A6-B11-C3;  |
| A6-B11-C4;  | A6-B11-C5;  | A6-B11-C6;  | A6-B11-C7;  | A6-B11-C8;  | A6-B11-C9;  |
| A7-B11-C1;  | A7-B11-C2;  | A7-B11-C3;  | A7-B11-C4;  | A7-B11-C5;  | A7-B11-C6;  |
| A7-B11-C7;  | A7-B11-C8;  | A7-B11-C9;  | A8-B11-C1;  | A8-B11-C2;  | A8-B11-C3;  |
| A8-B11-C4;  | A8-B11-C5;  | A8-B11-C6;  | A8-B11-C7;  | A8-B11-C8;  | A8-B11-C9;  |
| A9-B11-C1;  | A9-B11-C2;  | A9-B11-C3;  | A9-B11-C4;  | A9-B11-C5;  | A9-B11-C6;  |
| A9-B11-C7;  | A9-B11-C8;  | A9-B11-C9;  | A10-B11-C1; | A10-B11-C2; | A10-B11-C3; |
| A10-B11-C4; | A10-B11-C5; | A10-B11-C6; | A10-B11-C7; | A10-B11-C8; | A10-B11-C9; |
| A11-B11-C1; | A11-B11-C2; | A11-B11-C3; | A11-B11-C4; | A11-B11-C5; | A11-B11-C6; |
| A11-B11-C7; | A11-B11-C8; | A11-B11-C9; | A12-B11-C1; | A12-B11-C2; | A12-B11-C3; |
| A12-B11-C4; | A12-B11-C5; | A12-B11-C6; | A12-B11-C7; | A12-B11-C8; | A12-B11-C9; |
| A13-B11-C1; | A13-B11-C2; | A13-B11-C3; | A13-B11-C4; | A13-B11-C5; | A13-B11-C6; |
| A13-B11-C7; | A13-B11-C8; | A13-B11-C9; | A14-B11-C1; | A14-B11-C2; | A14-B11-C3; |
| A14-B11-C4; | A14-B11-C5; | A14-B11-C6; | A14-B11-C7; | A14-B11-C8; | A14-B11-C9; |
| A15-B11-C1; | A15-B11-C2; | A15-B11-C3; | A15-B11-C4; | A15-B11-C5; | A15-B11-C6; |
| A15-B11-C7; | A15-B11-C8; | A15-B11-C9; | A16-B11-C1; | A16-B11-C2; | A16-B11-C3; |
| A16-B11-C4; | A16-B11-C5; | A16-B11-C6; | A16-B11-C7; | A16-B11-C8; | A16-B11-C9; |
| A17-B11-C1; | A17-B11-C2; | A17-B11-C3; | A17-B11-C4; | A17-B11-C5; | A17-B11-C6; |
| A17-B11-C7; | A17-B11-C8; | A17-B11-C9; | A18-B11-C1; | A18-B11-C2; | A18-B11-C3; |
| A18-B11-C4; | A18-B11-C5; | A18-B11-C6; | A18-B11-C7; | A18-B11-C8; | A18-B11-C9; |
| A19-B11-C1; | A19-B11-C2; | A19-B11-C3; | A19-B11-C4; | A19-B11-C5; | A19-B11-C6; |
| A19-B11-C7; | A19-B11-C8; | A19-B11-C9; | A20-B11-C1; | A20-B11-C2; | A20-B11-C3; |
| A20-B11-C4; | A20-B11-C5; | A20-B11-C6; | A20-B11-C7; | A20-B11-C8; | A20-B11-C9; |
| A21-B11-C1; | A21-B11-C2; | A21-B11-C3; | A21-B11-C4; | A21-B11-C5; | A21-B11-C6; |
| A21-B11-C7; | A21-B11-C8; | A21-B11-C9; | A22-B11-C1; | A22-B11-C2; | A22-B11-C3; |
|             |             |             |             |             |             |

| A22-B11-C4;                | A22-B11-C5;                | A22-B11-C6;                | A22-B11-C7;                | A22-B11-C8;                | A22-B11-C9;                |
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| A23-B11-C1;                | A23-B11-C2;                | A23-B11-C3;                | A23-B11-C4;                | A23-B11-C5;                | A23-B11-C6;                |
| A23-B11-C7;                | A23-B11-C8;                | A23-B11-C9;                | A24-B11-C1;                | A24-B11-C2;                | A24-B11-C3;                |
| A24-B11-C4;                | A24-B11-C5;                | A24-B11-C6;                | A24-B11-C7;                | A24-B11-C8;                | A24-B11-C9;                |
| A25-B11-C1;                | A25-B11-C2;                | A25-B11-C3;                | A25-B11-C4;                | A25-B11-C5;                | A25-B11-C6;                |
| A25-B11-C7;                | A25-B11-C8;                | A25-B11-C9;                | A26-B11-C1;                | A26-B11-C2;                | A26-B11-C3;                |
| A26-B11-C4;                | A26-B11-C5;                | A26-B11-C6;                | A26-B11-C7;                | A26-B11-C8;                | A26-B11-C9;                |
| A27-B11-C1;                | A27-B11-C2;                | A27-B11-C3;                | A27-B11-C4;                | A27-B11-C5;                | A27-B11-C6;                |
| A27-B11-C7;                | A27-B11-C8;                | A27-B11-C9;                | A28-B11-C1;                | A28-B11-C2;                | A28-B11-C3;                |
| A28-B11-C4;                | A28-B11-C5;                | A28-B11-C6;                | A28-B11-C7;                | A28-B11-C8;                | A28-B11-C9;                |
| A29-B11-C1;                | A29-B11-C2;                | A29-B11-C3;                | A29-B11-C4;                | A29-B11-C5;                | A29-B11-C6;                |
| A29-B11-C7;                | A29-B11-C8;                | A29-B11-C9;                | A30-B11-C1;                | A30-B11-C2;                | A30-B11-C3;                |
| A30-B11-C4;                | A30-B11-C5;                | A30-B11-C6;                | A30-B11-C7;                | A30-B11-C8;                | A30-B11-C9;                |
| A31-B11-C1;                | A31-B11-C2;                | A31-B11-C3;                | A31-B11-C4;                | A31-B11-C5;                | A31-B11-C6;                |
| A31-B11-C7;                | A31-B11-C8;                | A31-B11-C9;                | A32-B11-C1;                | A32-B11-C2;                | A32-B11-C3;                |
| A32-B11-C4;                | A32-B11-C5;                | A32-B11-C6;                | A32-B11-C7;                | A32-B11-C8;                | A32-B11-C9;                |
| A33-B11-C1;                | A33-B11-C2;                | A33-B11-C3;                | A33-B11-C4;                | A33-B11-C5;                | A33-B11-C6;                |
| A33-B11-C7;                | A33-B11-C8;                | A33-B11-C9;                | A34-B11-C1;                | A34-B11-C2;                | A34-B11-C3;                |
| A34-B11-C4;                | A34-B11-C5;                | A34-B11-C6;                | A34-B11-C7;                | A34-B11-C8;                | A34-B11-C9;                |
| A35-B11-C1;                | A35-B11-C2;                | A35-B11-C3;                | A35-B11-C4;                | A35-B11-C5;                | A35-B11-C6;                |
| A35-B11-C7;                | A35-B11-C8;                | A35-B11-C9;                | A36-B11-C1;                | A36-B11-C2;                | A36-B11-C3;                |
| A36-B11-C4;                | A36-B11-C5;                | A36-B11-C6;                | A36-B11-C7;                | A36-B11-C8;                | A36-B11-C9;                |
| A37-B11-C1;                | A37-B11-C2;                | A37-B11-C3;                | A37-B11-C4;                | A37-B11-C5;                | A37-B11-C6;                |
| A37-B11-C7;                | A37-B11-C8;                | A37-B11-C9;                | A38-B11-C1;                | A38-B11-C2;                | A38-B11-C3;                |
| A38-B11-C4;                | A38-B11-C5;                | A38-B11-C6;                | A38-B11-C7;                | A38-B11-C8;                | A38-B11-C9;                |
| A39-B11-C1;                | A39-B11-C2;                | A39-B11-C3;                | A39-B11-C4;                | A39-B11-C5;                | A39-B11-C6;                |
| A39-B11-C7;                | A39-B11-C8;                | A39-B11-C9;                | A40-B11-C1;                | A40-B11-C2;                | A40-B11-C3;                |
| A40-B11-C4;                | A40-B11-C5;                | A40-B11-C6;                | A40-B11-C7;                | A40-B11-C8;                | A40-B11-C9;                |
| A41-B11-C1;                | A41-B11-C2;                | A41-B11-C3;                | A41-B11-C4;                | A41-B11-C5;                | A41-B11-C6;                |
| A41-B11-C7;                | A41-B11-C8;                | A41-B11-C9;                | A42-B11-C1;                | A42-B11-C2;                | A42-B11-C3;                |
| A42-B11-C4;                | A42-B11-C5;                | A42-B11-C6;                | A42-B11-C7;                | A42-B11-C8;                | A42-B11-C9;                |
| A43-B11-C1;<br>A43-B11-C7; | A43-B11-C2;                | A43-B11-C3;                | A43-B11-C4;                | A43-B11-C5;                | A43-B11-C6;                |
| A44-B11-C4;                | A43-B11-C8;<br>A44-B11-C5; | A43-B11-C9;                | A44-B11-C1;                | A44-B11-C2;                | A44-B11-C3;                |
| A45-B11-C1;                | A44-B11-C3;<br>A45-B11-C2; | A44-B11-C6;<br>A45-B11-C3; | A44-B11-C7;<br>A45-B11-C4; | A44-B11-C8;<br>A45-B11-C5; | A44-B11-C9;                |
| A45-B11-C1;                | A45-B11-C2;                | A45-B11-C5;                | A46-B11-C1;                | A46-B11-C2;                | A45-B11-C6;<br>A46-B11-C3; |
| A46-B11-C4;                | A46-B11-C5;                | A46-B11-C6;                | A46-B11-C1;                | A46-B11-C2;                | A46-B11-C9;                |
| A47-B11-C1;                | A47-B11-C2;                | A47-B11-C3;                | A47-B11-C4;                | A47-B11-C5;                | A47-B11-C6;                |
| A47-B11-C7;                | A47-B11-C2;                | A47-B11-C9;                | A48-B11-C1;                | A48-B11-C2;                | A48-B11-C3;                |
| A48-B11-C4;                | A48-B11-C5;                | A48-B11-C6;                | A48-B11-C7;                | A48-B11-C8;                | A48-B11-C9;                |
| A49-B11-C1;                | A49-B11-C2;                | A49-B11-C3;                | A49-B11-C4;                | A49-B11-C5;                | A49-B11-C6;                |
| A49-B11-C7;                | A49-B11-C8;                | A49-B11-C9;                | A50-B11-C1;                | A50-B11-C2;                | A50-B11-C3;                |
| A50-B11-C4;                | A50-B11-C5;                | A50-B11-C6;                | A50-B11-C7;                | A50-B11-C8;                | A50-B11-C9;                |
| A51-B11-C1;                | A51-B11-C2;                | A51-B11-C3;                | A51-B11-C4;                | A51-B11-C5;                | A51-B11-C6;                |
| A51-B11-C7;                | A51-B11-C8;                | A51-B11-C9;                | A52-B11-C1;                | A52-B11-C2;                | A52-B11-C3;                |
| A52-B11-C4;                | A52-B11-C5;                | A52-B11-C6;                | A52-B11-C7;                | A52-B11-C8;                | A52-B11-C9;                |
| A53-B11-C1;                | A53-B11-C2;                | A53-B11-C3;                | A53-B11-C4;                | A53-B11-C5;                | A53-B11-C6;                |
| A53-B11-C7;                | A53-B11-C8;                | A53-B11-C9;                | A54-B11-C1;                | A54-B11-C2;                | A54-B11-C3;                |
| A54-B11-C4;                | A54-B11-C5;                | A54-B11-C6;                | A54-B11-C7;                | A54-B11-C8;                | A54-B11-C9;                |
| A55-B11-C1;                | A55-B11-C2;                | A55-B11-C3;                | A55-B11-C4;                | A55-B11-C5;                | A55-B11-C6;                |
| A55-B11-C7;                | A55-B11-C8;                | A55-B11-C9;                | A56-B11-C1;                | A56-B11-C2;                | A56-B11-C3;                |
| A56-B11-C4;                | A56-B11-C5;                | A56-B11-C6;                | A56-B11-C7;                | A56-B11-C8;                | A56-B11-C9;                |
| A57-B11-C1;                | A57-B11-C2;                | A57-B11-C3;                | A57-B11-C4;                | A57-B11-C5;                | A57-B11-C6;                |
| A57-B11-C7;                | A57-B11-C8;                | A57-B11-C9;                | A58-B11-C1;                | A58-B11-C2;                | A58-B11-C3;                |
| A58-B11-C4;                | A58-B11-C5;                | A58-B11-C6;                | A58-B11-C7;                | A58-B11-C8;                | A58-B11-C9;                |
|                            |                            |                            |                            |                            |                            |

| A59-B11-C1; | A59-B11-C2; | A59-B11-C3; | A59-B11-C4;                | A59-B11-C5;                | A59-B11-C6;                |
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| A59-B11-C7; | A59-B11-C8; | A59-B11-C9; | A60-B11-C1;                | A60-B11-C2;                | A60-B11-C3;                |
| A60-B11-C4; | A60-B11-C5; | A60-B11-C6; | A60-B11-C7;                | A60-B11-C8;                | A60-B11-C9;                |
| A61-B11-C1; | A61-B11-C2; | A61-B11-C3; | A61-B11-C4;                | A61-B11-C5;                | A61-B11-C6;                |
| A61-B11-C7; | A61-B11-C8; | A61-B11-C9; | A62-B11-C1;                | A62-B11-C2;                | A62-B11-C3;                |
| A62-B11-C4; | A62-B11-C5; | A62-B11-C6; | A62-B11-C7;                | A62-B11-C8;                | A62-B11-C9;                |
| A63-B11-C1; | A63-B11-C2; | A63-B11-C3; | A63-B11-C4;                | A63-B11-C5;                | A63-B11-C6;                |
| A63-B11-C7; | A63-B11-C8; | A63-B11-C9; | A64-B11-C1;                | A64-B11-C2;                | A64-B11-C3;                |
| A64-B11-C4; | A64-B11-C5; | A64-B11-C6; | A64-B11-C7;                | A64-B11-C8;                | A64-B11-C9;                |
| A65-B11-C1; | A65-B11-C2; | A65-B11-C3; | A65-B11-C4;                | A65-B11-C5;                | A65-B11-C6;                |
| A65-B11-C7; | A65-B11-C8; | A65-B11-C9; | A66-B11-C1;                | A66-B11-C2;                | A66-B11-C3;                |
| A66-B11-C4; | A66-B11-C5; | A66-B11-C6; | A66-B11-C7;                | A66-B11-C8;                | A66-B11-C9;                |
| A67-B11-C1; | A67-B11-C2; | A67-B11-C3; | A67-B11-C4;                | A67-B11-C5;                | A67-B11-C6;                |
| A67-B11-C7; | A67-B11-C8; | A67-B11-C9; | A68-B11-C1;                | A68-B11-C2;                | A68-B11-C3;                |
| A68-B11-C4; | A68-B11-C5; | A68-B11-C6; | A68-B11-C7;                | A68-B11-C8;                | A68-B11-C9;                |
| A69-B11-C1; | A69-B11-C2; | A69-B11-C3; | A69-B11-C4;                | A69-B11-C5;                | A69-B11-C6;                |
| A69-B11-C7; | A69-B11-C8; | A69-B11-C9; | A70-B11-C1;                | A70-B11-C2;                | A70-B11-C3;                |
| A70-B11-C4; | A70-B11-C5; | A70-B11-C6; | A70-B11-C7;                | A70-B11-C8;                | A70-B11-C9;                |
| A71-B11-C1; | A71-B11-C2; | A71-B11-C3; | A71-B11-C4;                | A71-B11-C5;                | A71-B11-C6;                |
| A71-B11-C7; | A71-B11-C8; | A71-B11-C9; | A1-B12-C1;                 | A1-B12-C2;                 | A1-B12-C3;                 |
| A1-B12-C4;  | A1-B12-C5;  | A1-B12-C6;  | A1-B12-C7;                 | A1-B12-C8;                 | A1-B12-C9;                 |
| A2-B12-C1;  | A2-B12-C2;  | A2-B12-C3;  | A2-B12-C4;                 | A2-B12-C5;                 | A2-B12-C6;                 |
| A2-B12-C7;  | A2-B12-C8;  | A2-B12-C9;  | A3-B12-C1;                 | A3-B12-C2;                 | A3-B12-C3;                 |
| A3-B12-C4;  | A3-B12-C5;  | A3-B12-C6;  | A3-B12-C7;                 | A3-B12-C8;                 | A3-B12-C9;                 |
| A4-B12-C1;  | A4-B12-C2;  | A4-B12-C3;  | A4-B12-C4;                 | A4-B12-C5;                 | A4-B12-C6;                 |
| A4-B12-C7;  | A4-B12-C8;  | A4-B12-C9;  | A5-B12-C1;                 | A5-B12-C2;                 | A5-B12-C3;                 |
| A5-B12-C4;  | A5-B12-C5;  | A5-B12-C6;  | A5-B12-C7;                 | A5-B12-C8;                 | A5-B12-C9;                 |
| A6-B12-C1;  | A6-B12-C2;  | A6-B12-C3;  | A6-B12-C4;                 | A6-B12-C5;                 | A6-B12-C6;                 |
| A6-B12-C7;  | A6-B12-C8;  | A6-B12-C9;  | A7-B12-C1;                 | A7-B12-C2;                 | A7-B12-C3;                 |
| A7-B12-C4;  | A7-B12-C5;  | A7-B12-C6;  | A7-B12-C7;                 | A7-B12-C8;                 | A7-B12-C9;                 |
| A8-B12-C1;  | A8-B12-C2;  | A8-B12-C3;  | A8-B12-C4;                 | A8-B12-C5;                 | A8-B12-C6;                 |
| A8-B12-C7;  | A8-B12-C8;  | A8-B12-C9;  | A9-B12-C1;                 | A9-B12-C2;                 | A9-B12-C3;                 |
| A9-B12-C4;  | A9-B12-C5;  | A9-B12-C6;  | A9-B12-C7;                 | A9-B12-C8;                 | A9-B12-C9;                 |
| A10-B12-C1; | A10-B12-C2; | A10-B12-C3; | A10-B12-C4;                | A10-B12-C5;                | A10-B12-C6;                |
| A10-B12-C7; | A10-B12-C8; | A10-B12-C9; | A11-B12-C1;                | A11-B12-C2;                | A11-B12-C3;                |
| A11-B12-C4; | A11-B12-C5; | A11-B12-C6; | A11-B12-C7;                | A11-B12-C8;                | A11-B12-C9;                |
| A12-B12-C1; | A12-B12-C2; | A12-B12-C3; | A12-B12-C4;                | A12-B12-C5;                | A12-B12-C6;                |
| A12-B12-C7; | A12-B12-C8; | A12-B12-C9; | A13-B12-C1;                | A13-B12-C2;                | A13-B12-C3;                |
| A13-B12-C4; | A13-B12-C5; | A13-B12-C6; | A13-B12-C7;                | A13-B12-C8;                | A13-B12-C9;                |
| A14-B12-C1; | A14-B12-C2; | A14-B12-C3; | A14-B12-C4;                | A14-B12-C5;                | A14-B12-C6;                |
| A14-B12-C7; | A14-B12-C8; | A14-B12-C9; | A15-B12-C1;                | A15-B12-C2;                | A15-B12-C3;                |
| A15-B12-C4; | A15-B12-C5; | A15-B12-C6; | A15-B12-C7;                | A15-B12-C8;                | A15-B12-C9;                |
| A16-B12-C1; | A16-B12-C2; | A16-B12-C3; | A16-B12-C4;                | A16-B12-C5;                | A16-B12-C6;                |
| A16-B12-C7; | A16-B12-C8; | A16-B12-C9; | A17-B12-C1;                | A17-B12-C2;                | A17-B12-C3;                |
| A17-B12-C4; | A17-B12-C5; | A17-B12-C6; | A17-B12-C7;                | A17-B12-C8;                | A17-B12-C9;                |
| A18-B12-C1; | A18-B12-C2; | A18-B12-C3; | A18-B12-C4;                | A18-B12-C5;                | A18-B12-C6;                |
| A18-B12-C7; | A18-B12-C8; | A18-B12-C9; | A19-B12-C1;                | A19-B12-C2;                | A19-B12-C3;                |
| A19-B12-C4; | A19-B12-C5; | A19-B12-C6; | A19-B12-C7;                | A19-B12-C8;                | A19-B12-C9;                |
| A20-B12-C1; | A20-B12-C2; | A20-B12-C3; | A20-B12-C4;                | A20-B12-C5;                | A20-B12-C6;                |
| A20-B12-C1; | A20-B12-C2; | A20-B12-C9; | A21-B12-C1;                | A20-B12-C3;<br>A21-B12-C2; | A20-B12-C0;<br>A21-B12-C3; |
| A21-B12-C4; | A21-B12-C5; | A21-B12-C6; | A21-B12-C1;                | A21-B12-C2;                | A21-B12-C9;                |
| A22-B12-C1; | A22-B12-C2; | A22-B12-C3; | A22-B12-C4;                | A22-B12-C5;                | A22-B12-C6;                |
| A22-B12-C7; | A22-B12-C8; | A22-B12-C9; | A23-B12-C1;                | A23-B12-C3;                | A23-B12-C3;                |
| A23-B12-C4; | A23-B12-C5; | A23-B12-C6; | A23-B12-C1;<br>A23-B12-C7; | A23-B12-C2;<br>A23-B12-C8; | A23-B12-C9;                |
| A24-B12-C1; | A24-B12-C2; | A24-B12-C3; | A24-B12-C4;                | A24-B12-C5;                | A24-B12-C6;                |
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| A24-B12-C7; | A24-B12-C8; | A24-B12-C9; | A25-B12-C1; | A25-B12-C2; | A25-B12-C3; |
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| A25-B12-C4; | A25-B12-C5; | A25-B12-C6; | A25-B12-C7; | A25-B12-C8; | A25-B12-C9; |
| A26-B12-C1; | A26-B12-C2; | A26-B12-C3; | A26-B12-C4; | A26-B12-C5; | A26-B12-C6; |
| A26-B12-C7; | A26-B12-C8; | A26-B12-C9; | A27-B12-C1; | A27-B12-C2; | A27-B12-C3; |
| A27-B12-C4; | A27-B12-C5; | A27-B12-C6; | A27-B12-C7; | A27-B12-C8; | A27-B12-C9; |
| A28-B12-C1; | A28-B12-C2; | A28-B12-C3; | A28-B12-C4; | A28-B12-C5; | A28-B12-C6; |
| A28-B12-C7; | A28-B12-C8; | A28-B12-C9; | A29-B12-C1; | A29-B12-C2; | A29-B12-C3; |
| A29-B12-C4; | A29-B12-C5; | A29-B12-C6; | A29-B12-C7; | A29-B12-C8; | A29-B12-C9; |
| A30-B12-C1; | A30-B12-C2; | A30-B12-C3; | A30-B12-C4; | A30-B12-C5; | A30-B12-C6; |
| A30-B12-C7; | A30-B12-C8; | A30-B12-C9; | A31-B12-C1; | A31-B12-C2; | A31-B12-C3; |
| A31-B12-C4; | A31-B12-C5; | A31-B12-C6; | A31-B12-C7; | A31-B12-C8; | A31-B12-C9; |
| A32-B12-C1; | A32-B12-C2; | A32-B12-C3; | A32-B12-C4; | A32-B12-C5; | A32-B12-C6; |
| A32-B12-C7; | A32-B12-C8; | A32-B12-C9; | A33-B12-C1; | A33-B12-C2; | A33-B12-C3; |
| A33-B12-C4; | A33-B12-C5; | A33-B12-C6; | A33-B12-C7; | A33-B12-C8; | A33-B12-C9; |
| A34-B12-C1; | A34-B12-C2; | A34-B12-C3; | A34-B12-C4; | A34-B12-C5; | A34-B12-C6; |
| A34-B12-C7; | A34-B12-C8; | A34-B12-C9; | A35-B12-C1; | A35-B12-C2; | A35-B12-C3; |
| A35-B12-C4; | A35-B12-C5; | A35-B12-C6; | A35-B12-C7; | A35-B12-C8; | A35-B12-C9; |
| A36-B12-C1; | A36-B12-C2; | A36-B12-C3; | A36-B12-C4; | A36-B12-C5; | A36-B12-C6; |
| A36-B12-C7; | A36-B12-C8; | A36-B12-C9; | A37-B12-C1; | A37-B12-C2; | A37-B12-C3; |
| A37-B12-C4; | A37-B12-C5; | A37-B12-C6; | A37-B12-C7; | A37-B12-C8; | A37-B12-C9; |
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| A38-B12-C7; | A38-B12-C8; | A38-B12-C9; | A39-B12-C1; | A39-B12-C2; | A39-B12-C3; |
| A39-B12-C4; | A39-B12-C5; | A39-B12-C6; | A39-B12-C7; | A39-B12-C8; | A39-B12-C9; |
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| A40-B12-C7; | A40-B12-C8; | A40-B12-C9; | A41-B12-C1; | A41-B12-C2; | A41-B12-C3; |
| A41-B12-C4; | A41-B12-C5; | A41-B12-C6; | A41-B12-C7; | A41-B12-C8; | A41-B12-C9; |
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| A42-B12-C7; | A42-B12-C8; | A42-B12-C9; | A43-B12-C1; | A43-B12-C2; | A43-B12-C3; |
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| A44-B12-C7; | A44-B12-C8; | A44-B12-C9; | A45-B12-C1; | A45-B12-C2; | A45-B12-C3; |
| A45-B12-C4; | A45-B12-C5; | A45-B12-C6; | A45-B12-C7; | A45-B12-C8; | A45-B12-C9; |
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| A46-B12-C7; | A46-B12-C8; | A46-B12-C9; | A47-B12-C1; | A47-B12-C2; | A47-B12-C3; |
| A47-B12-C4; | A47-B12-C5; | A47-B12-C6; | A47-B12-C7; | A47-B12-C8; | A47-B12-C9; |
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| A48-B12-C7; | A48-B12-C8; | A48-B12-C9; | A49-B12-C1; | A49-B12-C2; | A49-B12-C3; |
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| A50-B12-C7; | A50-B12-C8; | A50-B12-C9; | A51-B12-C1; | A51-B12-C2; | A51-B12-C3; |
| A51-B12-C4; | A51-B12-C5; | A51-B12-C6; | A51-B12-C7; | A51-B12-C8; | A51-B12-C9; |
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| A52-B12-C7; | A52-B12-C8; | A52-B12-C9; | A53-B12-C1; | A53-B12-C2; | A53-B12-C3; |
| A53-B12-C4; | A53-B12-C5; | A53-B12-C6; | A53-B12-C7; | A53-B12-C8; | A53-B12-C9; |
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| A54-B12-C7; | A54-B12-C8; | A54-B12-C9; | A55-B12-C1; | A55-B12-C2; | A55-B12-C3; |
| A55-B12-C4; | A55-B12-C5; | A55-B12-C6; | A55-B12-C7; | A55-B12-C8; | A55-B12-C9; |
| A56-B12-C1; | A56-B12-C2; | A56-B12-C3; | A56-B12-C4; | A56-B12-C5; | A56-B12-C6; |
| A56-B12-C7; | A56-B12-C8; | A56-B12-C9; | A57-B12-C1; | A57-B12-C2; | A57-B12-C3; |
| A57-B12-C4; | A57-B12-C5; | A57-B12-C6; | A57-B12-C7; | A57-B12-C8; | A57-B12-C9; |
| A58-B12-C1; | A58-B12-C2; | A58-B12-C3; | A58-B12-C4; | A58-B12-C5; | A58-B12-C6; |
| A58-B12-C7; | A58-B12-C8; | A58-B12-C9; | A59-B12-C1; | A59-B12-C2; | A59-B12-C3; |
| A59-B12-C4; | A59-B12-C5; | A59-B12-C6; | A59-B12-C7; | A59-B12-C8; | A59-B12-C9; |
| A60-B12-C1; | A60-B12-C2; | A60-B12-C3; | A60-B12-C4; | A60-B12-C5; | A60-B12-C6; |
| A60-B12-C7; | A60-B12-C8; | A60-B12-C9; | A61-B12-C1; | A61-B12-C2; | A61-B12-C3; |
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| A61-B12-C4; | A61-B12-C5; | A61-B12-C6; | A61-B12-C7; | A61-B12-C8; | A61-B12-C9; |
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| A62-B12-C1; | A62-B12-C2; | A62-B12-C3; | A62-B12-C4; | A62-B12-C5; | A62-B12-C6; |
| A62-B12-C7; | A62-B12-C8; | A62-B12-C9; | A63-B12-C1; | A63-B12-C2; | A63-B12-C3; |
| A63-B12-C4; | A63-B12-C5; | A63-B12-C6; | A63-B12-C7; | A63-B12-C8; | A63-B12-C9; |
| A64-B12-C1; | A64-B12-C2; | A64-B12-C3; | A64-B12-C4; | A64-B12-C5; | A64-B12-C6; |
| A64-B12-C7; | A64-B12-C8; | A64-B12-C9; | A65-B12-C1; | A65-B12-C2; | A65-B12-C3; |
| A65-B12-C4; | A65-B12-C5; | A65-B12-C6; | A65-B12-C7; | A65-B12-C8; | A65-B12-C9; |
| A66-B12-C1; | A66-B12-C2; | A66-B12-C3; | A66-B12-C4; | A66-B12-C5; | A66-B12-C6; |
| A66-B12-C7; | A66-B12-C8; | A66-B12-C9; | A67-B12-C1; | A67-B12-C2; | A67-B12-C3; |
| A67-B12-C4; | A67-B12-C5; | A67-B12-C6; | A67-B12-C7; | A67-B12-C8; | A67-B12-C9; |
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| A68-B12-C7; | A68-B12-C8; | A68-B12-C9; | A69-B12-C1; | A69-B12-C2; | A69-B12-C3; |
| A69-B12-C4; | A69-B12-C5; | A69-B12-C6; | A69-B12-C7; | A69-B12-C8; | A69-B12-C9; |
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| A70-B12-C7; | A70-B12-C8; | A70-B12-C9; | A71-B12-C1; | A71-B12-C2; | A71-B12-C3; |
| A71-B12-C4; | A71-B12-C5; | A71-B12-C6; | A71-B12-C7; | A71-B12-C8; | A71-B12-C9; |
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| A1-B13-C7;  | A1-B13-C8;  | A1-B13-C9;  | A2-B13-C1;  | A2-B13-C2;  | A2-B13-C3;  |
| A2-B13-C4;  | A2-B13-C5;  | A2-B13-C6;  | A2-B13-C7;  | A2-B13-C8;  | A2-B13-C9;  |
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| A3-B13-C7;  | A3-B13-C8;  | A3-B13-C9;  | A4-B13-C1;  | A4-B13-C2;  | A4-B13-C3;  |
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| A5-B13-C7;  | A5-B13-C8;  | A5-B13-C9;  | A6-B13-C1;  | A6-B13-C2;  | A6-B13-C3;  |
| A6-B13-C4;  | A6-B13-C5;  | A6-B13-C6;  | A6-B13-C7;  | A6-B13-C8;  | A6-B13-C9;  |
| A7-B13-C1;  | A7-B13-C2;  | A7-B13-C3;  | A7-B13-C4;  | A7-B13-C5;  | A7-B13-C6;  |
| A7-B13-C7;  | A7-B13-C8;  | A7-B13-C9;  | A8-B13-C1;  | A8-B13-C2;  | A8-B13-C3;  |
| A8-B13-C4;  | A8-B13-C5;  | A8-B13-C6;  | A8-B13-C7;  | A8-B13-C8;  | A8-B13-C9;  |
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| A9-B13-C7;  | A9-B13-C8;  | A9-B13-C9;  | A10-B13-C1; | A10-B13-C2; | A10-B13-C3; |
| A10-B13-C4; | A10-B13-C5; | A10-B13-C6; | A10-B13-C7; | A10-B13-C8; | A10-B13-C9; |
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| A11-B13-C7; | A11-B13-C8; | A11-B13-C9; | A12-B13-C1; | A12-B13-C2; | A12-B13-C3; |
| A12-B13-C4; | A12-B13-C5; | A12-B13-C6; | A12-B13-C7; | A12-B13-C8; | A12-B13-C9; |
| A13-B13-C1; | A13-B13-C2; | A13-B13-C3; | A13-B13-C4; | A13-B13-C5; | A13-B13-C6; |
| A13-B13-C7; | A13-B13-C8; | A13-B13-C9; | A14-B13-C1; | A14-B13-C2; | A14-B13-C3; |
| A14-B13-C4; | A14-B13-C5; | A14-B13-C6; | A14-B13-C7; | A14-B13-C8; | A14-B13-C9; |
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| A15-B13-C7; | A15-B13-C8; | A15-B13-C9; | A16-B13-C1; | A16-B13-C2; | A16-B13-C3; |
| A16-B13-C4; | A16-B13-C5; | A16-B13-C6; | A16-B13-C7; | A16-B13-C8; | A16-B13-C9; |
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| A17-B13-C7; | A17-B13-C8; | A17-B13-C9; | A18-B13-C1; | A18-B13-C2; | A18-B13-C3; |
| A18-B13-C4; | A18-B13-C5; | A18-B13-C6; | A18-B13-C7; | A18-B13-C8; | A18-B13-C9; |
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| A19-B13-C7; | A19-B13-C8; | A19-B13-C9; | A20-B13-C1; | A20-B13-C2; | A20-B13-C3; |
| A20-B13-C4; | A20-B13-C5; | A20-B13-C6; | A20-B13-C7; | A20-B13-C8; | A20-B13-C9; |
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| A21-B13-C7; | A21-B13-C8; | A21-B13-C9; | A22-B13-C1; | A22-B13-C2; | A22-B13-C3; |
| A22-B13-C4; | A22-B13-C5; | A22-B13-C6; | A22-B13-C7; | A22-B13-C8; | A22-B13-C9; |
| A23-B13-C1; | A23-B13-C2; | A23-B13-C3; | A23-B13-C4; | A23-B13-C5; | A23-B13-C6; |
| A23-B13-C7; | A23-B13-C8; | A23-B13-C9; | A24-B13-C1; | A24-B13-C2; | A24-B13-C3; |
| A24-B13-C4; | A24-B13-C5; | A24-B13-C6; | A24-B13-C7; | A24-B13-C8; | A24-B13-C9; |
| A25-B13-C1; | A25-B13-C2; | A25-B13-C3; | A25-B13-C4; | A25-B13-C5; | A25-B13-C6; |
| A25-B13-C7; | A25-B13-C8; | A25-B13-C9; | A26-B13-C1; | A26-B13-C2; | A26-B13-C3; |
| A26-B13-C4; | A26-B13-C5; | A26-B13-C6; | A26-B13-C7; | A26-B13-C8; | A26-B13-C9; |
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| A27-B13-C1; | A27-B13-C2; | A27-B13-C3;                | A27-B13-C4;                | A27-B13-C5; | A27-B13-C6; |
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| A27-B13-C7; | A27-B13-C8; | A27-B13-C9;                | A28-B13-C1;                | A28-B13-C2; | A28-B13-C3; |
| A28-B13-C4; | A28-B13-C5; | A28-B13-C6;                | A28-B13-C7;                | A28-B13-C8; | A28-B13-C9; |
| A29-B13-C1; | A29-B13-C2; | A29-B13-C3;                | A29-B13-C4;                | A29-B13-C5; | A29-B13-C6; |
| A29-B13-C7; | A29-B13-C8; | A29-B13-C9;                | A30-B13-C1;                | A30-B13-C2; | A30-B13-C3; |
| A30-B13-C4; | A30-B13-C5; | A30-B13-C6;                | A30-B13-C7;                | A30-B13-C8; | A30-B13-C9; |
| A31-B13-C1; | A31-B13-C2; | A31-B13-C3;                | A31-B13-C4;                | A31-B13-C5; | A31-B13-C6; |
| A31-B13-C7; | A31-B13-C8; | A31-B13-C9;                | A32-B13-C1;                | A32-B13-C2; | A32-B13-C3; |
| A32-B13-C4; | A32-B13-C5; | A31-B13-C5;                | A32-B13-C1;                | A32-B13-C2; | A32-B13-C9; |
| A33-B13-C1; | A33-B13-C3; | A32-B13-C0;<br>A33-B13-C3; | A33-B13-C4;                | A33-B13-C5; | A33-B13-C6; |
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| A33-B13-C7; | A33-B13-C8; | A33-B13-C9;                | A34-B13-C1;<br>A34-B13-C7; |             |             |
| A34-B13-C4; | A34-B13-C5; | A34-B13-C6;                |                            | A34-B13-C8; | A34-B13-C9; |
| A35-B13-C1; | A35-B13-C2; | A35-B13-C3;                | A35-B13-C4;                | A35-B13-C5; | A35-B13-C6; |
| A35-B13-C7; | A35-B13-C8; | A35-B13-C9;                | A36-B13-C1;                | A36-B13-C2; | A36-B13-C3; |
| A36-B13-C4; | A36-B13-C5; | A36-B13-C6;                | A36-B13-C7;                | A36-B13-C8; | A36-B13-C9; |
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| A37-B13-C7; | A37-B13-C8; | A37-B13-C9;                | A38-B13-C1;                | A38-B13-C2; | A38-B13-C3; |
| A38-B13-C4; | A38-B13-C5; | A38-B13-C6;                | A38-B13-C7;                | A38-B13-C8; | A38-B13-C9; |
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| A39-B13-C7; | A39-B13-C8; | A39-B13-C9;                | A40-B13-C1;                | A40-B13-C2; | A40-B13-C3; |
| A40-B13-C4; | A40-B13-C5; | A40-B13-C6;                | A40-B13-C7;                | A40-B13-C8; | A40-B13-C9; |
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| A41-B13-C7; | A41-B13-C8; | A41-B13-C9;                | A42-B13-C1;                | A42-B13-C2; | A42-B13-C3; |
| A42-B13-C4; | A42-B13-C5; | A42-B13-C6;                | A42-B13-C7;                | A42-B13-C8; | A42-B13-C9; |
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| A43-B13-C7; | A43-B13-C8; | A43-B13-C9;                | A44-B13-C1;                | A44-B13-C2; | A44-B13-C3; |
| A44-B13-C4; | A44-B13-C5; | A44-B13-C6;                | A44-B13-C7;                | A44-B13-C8; | A44-B13-C9; |
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| A45-B13-C7; | A45-B13-C8; | A45-B13-C9;                | A46-B13-C1;                | A46-B13-C2; | A46-B13-C3; |
| A46-B13-C4; | A46-B13-C5; | A46-B13-C6;                | A46-B13-C7;                | A46-B13-C8; | A46-B13-C9; |
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| A47-B13-C7; | A47-B13-C8; | A47-B13-C9;                | A48-B13-C1;                | A48-B13-C2; | A48-B13-C3; |
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| A49-B13-C7; | A49-B13-C8; | A49-B13-C9;                | A50-B13-C1;                | A50-B13-C2; | A50-B13-C3; |
| A50-B13-C4; | A50-B13-C5; | A50-B13-C6;                | A50-B13-C7;                | A50-B13-C8; | A50-B13-C9; |
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| A51-B13-C7; | A51-B13-C8; | A51-B13-C9;                | A52-B13-C1;                | A52-B13-C2; | A52-B13-C3; |
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| A54-B13-C4; | A54-B13-C5; | A54-B13-C6;                | A54-B13-C7;                | A54-B13-C8; | A54-B13-C9; |
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| A55-B13-C7; | A55-B13-C8; | A55-B13-C9;                | A56-B13-C1;                | A56-B13-C2; | A56-B13-C3; |
| A56-B13-C4; | A56-B13-C5; | A56-B13-C6;                | A56-B13-C7;                | A56-B13-C8; | A56-B13-C9; |
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| A57-B13-C7; | A57-B13-C8; | A57-B13-C9;                | A58-B13-C1;                | A58-B13-C2; | A58-B13-C3; |
| A58-B13-C4; | A58-B13-C5; | A58-B13-C6;                | A58-B13-C7;                | A58-B13-C8; | A58-B13-C9; |
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| A60-B13-C4; | A60-B13-C5; | A60-B13-C6;                | A60-B13-C1;                | A60-B13-C2; | A60-B13-C9; |
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| A61-B13-C7; | A61-B13-C2; | A61-B13-C9;                | A62-B13-C1;                | A62-B13-C2; | A62-B13-C3; |
| A62-B13-C4; | A62-B13-C5; | A62-B13-C6;                | A62-B13-C1;                | A62-B13-C2; | A62-B13-C9; |
| A63-B13-C1; | A63-B13-C3; | A63-B13-C3;                | A63-B13-C4;                | A63-B13-C5; | A63-B13-C6; |
| AUJ-D13-C1; | AU3-D13-C2; | A03-D13-C3;                | A03-B13-C4;                | A03-D13-C3; | A05-D15-C0; |

| A63-B13-C7; | A63-B13-C8; | A63-B13-C9; | A64-B13-C1; | A64-B13-C2; | A64-B13-C3; |
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| A64-B13-C4; | A64-B13-C5; | A64-B13-C6; | A64-B13-C7; | A64-B13-C8; | A64-B13-C9; |
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| A65-B13-C7; | A65-B13-C8; | A65-B13-C9; | A66-B13-C1; | A66-B13-C2; | A66-B13-C3; |
| A66-B13-C4; | A66-B13-C5; | A66-B13-C6; | A66-B13-C7; | A66-B13-C8; | A66-B13-C9; |
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| A71-B13-C7; | A71-B13-C8; | A71-B13-C9; | A1-B14-C1;  | A1-B14-C2;  | A1-B14-C3;  |
| A1-B14-C4;  | A1-B14-C5;  | A1-B14-C6;  | A1-B14-C7;  | A1-B14-C8;  | A1-B14-C9;  |
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| A2-B14-C7;  | A2-B14-C8;  | A2-B14-C9;  | A3-B14-C1;  | A3-B14-C2;  | A3-B14-C3;  |
| A3-B14-C4;  | A3-B14-C5;  | A3-B14-C6;  | A3-B14-C7;  | A3-B14-C8;  | A3-B14-C9;  |
| A4-B14-C1;  | A4-B14-C2;  | A4-B14-C3;  | A4-B14-C4;  | A4-B14-C5;  | A4-B14-C6;  |
| A4-B14-C7;  | A4-B14-C8;  | A4-B14-C9;  | A5-B14-C1;  | A5-B14-C2;  | A5-B14-C3;  |
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| A6-B14-C7;  | A6-B14-C8;  | A6-B14-C9;  | A7-B14-C1;  | A7-B14-C2;  | A7-B14-C3;  |
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| A8-B14-C7;  | A8-B14-C8;  | A8-B14-C9;  | A9-B14-C1;  | A9-B14-C2;  | A9-B14-C3;  |
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| A10-B14-C7; | A10-B14-C8; | A10-B14-C9; | A11-B14-C1; | A11-B14-C2  | A11-B14-C3; |
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| A30-B14-C7;                | A30-B14-C8;                | A30-B14-C9;                | A31-B14-C1;                | A31-B14-C2;                | A31-B14-C3;                |
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| A34-B14-C7;                | A34-B14-C8;                | A34-B14-C9;                | A35-B14-C1;                | A35-B14-C2;                | A35-B14-C3;                |
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| A38-B14-C7;                | A38-B14-C8;                | A38-B14-C9;                | A39-B14-C1;                | A39-B14-C2;                | A39-B14-C3;                |
| A39-B14-C4;                | A39-B14-C5;                | A39-B14-C6;                | A39-B14-C7;                | A39-B14-C8;                | A39-B14-C9;                |
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| A43-B14-C4;                | A43-B14-C5;                | A43-B14-C6;                | A43-B14-C7;                | A43-B14-C8;                | A43-B14-C9;                |
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| A44-B14-C7;                | A44-B14-C8;                | A44-B14-C9;                | A45-B14-C1;                | A45-B14-C2;                | A45-B14-C3;                |
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| A50-B14-C7;                | A50-B14-C8;                | A50-B14-C9;                | A51-B14-C1;                | A51-B14-C2;                | A51-B14-C3;                |
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| A58-B14-C7;                | A58-B14-C8;                | A58-B14-C9;                | A59-B14-C1;                | A59-B14-C2;                | A59-B14-C3;                |
| A59-B14-C4;                | A59-B14-C5;                | A59-B14-C6;                | A59-B14-C7;                | A59-B14-C8;                | A59-B14-C9;                |
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| A60-B14-C7;                | A60-B14-C8;                | A60-B14-C9;                | A61-B14-C1;                | A61-B14-C2;<br>A61-B14-C8; | A61-B14-C9;                |
| A61-B14-C4;                | A61-B14-C5;                | A61-B14-C6;                | A61-B14-C7;                | •                          | •                          |
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| A63-B14-C4;<br>A64-B14-C1; | A63-B14-C5;<br>A64-B14-C2; | A64-B14-C3;                | A63-B14-C7;<br>A64-B14-C4; | A63-B14-C8;<br>A64-B14-C5; | A64-B14-C6;                |
| A64-B14-C7;                | A64-B14-C2;<br>A64-B14-C8; | A64-B14-C9;                | A65-B14-C4;                | A65-B14-C2;                | A65-B14-C3;                |
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| A66-B14-C7;                | A66-B14-C8;                | A66-B14-C9;     | A67-B14-C1;   | A67-B14-C2; | A67-B14-C3; |
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| A1-B15-C7;                 | A1-B15-C8;                 | A1-B15-C9;      | A2-B15-C1;    | A2-B15-C2;  | A2-B15-C3;  |
| A2-B15-C4;                 | A2-B15-C5;                 | A2-B15-C6;      | A2-B15-C7;    | A2-B15-C8;  | A2-B15-C9;  |
| A3-B15-C1;                 | A3-B15-C2;                 | A3-B15-C3;      | A3-B15-C4;    | A3-B15-C5;  | A3-B15-C6;  |
| A3-B15-C7;                 | A3-B15-C8;                 | A3-B15-C9;      | A4-B15-C1;    | A4-B15-C2;  | A4-B15-C3;  |
| A4-B15-C4;                 | A4-B15-C5;                 | A4-B15-C6;      | A4-B15-C7;    | A4-B15-C8;  | A4-B15-C9;  |
| A5-B15-C1;                 | A5-B15-C2;                 | A5-B15-C3;      | A5-B15-C4;    | A5-B15-C5;  | A5-B15-C6;  |
| A5-B15-C1;                 | A5-B15-C8;                 | A5-B15-C9;      | A6-B15-C1;    | A6-B15-C2;  | A6-B15-C3;  |
|                            | A6-B15-C5;                 |                 | A6-B15-C1;    | A6-B15-C2;  | A6-B15-C9;  |
| A6-B15-C4;                 |                            | A6-B15-C6;      |               |             |             |
| A7-B15-C1;                 | A7-B15-C2;                 | A7-B15-C3;      | A7-B15-C4;    | A7-B15-C5;  | A7-B15-C6;  |
| A7-B15-C7;                 | A7-B15-C8;                 | A7-B15-C9;      | A8-B15-C1;    | A8-B15-C2;  | A8-B15-C3;  |
| A8-B15-C4;                 | A8-B15-C5;                 | A8-B15-C6;      | A8-B15-C7;    | A8-B15-C8;  | A8-B15-C9;  |
| A9-B15-C1;                 | A9-B15-C2;                 | A9-B15-C3;      | A9-B15-C4;    | A9-B15-C5;  | A9-B15-C6;  |
| A9-B15-C7;                 | A9-B15-C8;                 | A9-B15-C9;      | A10-B15-C1;   | A10-B15-C2; | A10-B15-C3; |
| A10-B15-C4;                | A10-B15-C5;                | A10-B15-C6;     | A10-B15-C7;   | A10-B15-C8; | A10-B15-C9; |
| A11-B15-C1;                | A11-B15-C2;                | A11-B15-C3;     | A11-B15-C4;   | A11-B15-C5; | A11-B15-C6; |
| A11-B15-C7;                | A11-B15-C8;                | A11-B15-C9;     | A12-B15-C1;   | A12-B15-C2; | A12-B15-C3; |
| A12-B15-C4;                | A12-B15-C5;                | A12-B15-C6;     | A12-B15-C7;   | A12-B15-C8; | A12-B15-C9; |
| A13-B15-C1;                | A13-B15-C2;                | A13-B15-C3;     | A13-B15-C4;   | A13-B15-C5; | A13-B15-C6; |
| A13-B15-C7;                | A13-B15-C8;                | A13-B15-C9;     | A14-B15-C1;   | A14-B15-C2; | A14-B15-C3; |
| A14-B15-C4;                | A14-B15-C5;                | A14-B15-C6;     | A14-B15-C7;   | A14-B15-C8; | A14-B15-C9; |
| A15-B15-C1;                | A15-B15-C2;                | A15-B15-C3;     | A15-B15-C4;   | A15-B15-C5; | A15-B15-C6; |
| A15-B15-C7;                | A15-B15-C8;                | A15-B15-C9;     | A16-B15-C1;   | A16-B15-C2; | A16-B15-C3; |
| A16-B15-C4;                | A16-B15-C5;                | A16-B15-C6;     | A16-B15-C7;   | A16-B15-C8; | A16-B15-C9; |
| A17-B15-C1;                | A17-B15-C2;                | A17-B15-C3;     | A17-B15-C4;   | A17-B15-C5; | A17-B15-C6; |
| A17-B15-C7;                | A17-B15-C8;                | A17-B15-C9;     | A18-B15-C1;   | A18-B15-C2; | A18-B15-C3; |
| A18-B15-C4;                | A18-B15-C5;                | A18-B15-C6;     | A18-B15-C7;   | A18-B15-C8; | A18-B15-C9; |
| A19-B15-C1;                | A19-B15-C2;                | A19-B15-C3;     | A19-B15-C4;   | A19-B15-C5; | A19-B15-C6; |
| A19-B15-C7;                | A19-B15-C8;                | A19-B15-C9;     | A20-B15-C1;   | A20-B15-C2; | A20-B15-C3; |
| A20-B15-C4;                | A20-B15-C5;                | A20-B15-C6;     | A20-B15-C7;   | A20-B15-C8; | A20-B15-C9; |
| A21-B15-C1;                | A21-B15-C2;                | A21-B15-C3;     | A21-B15-C4;   | A21-B15-C5; | A21-B15-C6; |
| A21-B15-C7;                | A21-B15-C8;                | A21-B15-C9;     | A22-B15-C1;   | A22-B15-C2; | A22-B15-C3; |
| A22-B15-C4;                | A22-B15-C5;                | A22-B15-C6;     | A22-B15-C7;   | A22-B15-C8; | A22-B15-C9; |
| A23-B15-C1;                | A23-B15-C2;                | A23-B15-C3;     | A23-B15-C4;   | A23-B15-C5; | A23-B15-C6; |
| A23-B15-C1;<br>A23-B15-C7; | A23-B15-C2;<br>A23-B15-C8; | A23-B15-C9;     | A24-B15-C1;   | A24-B15-C2; | A24-B15-C3; |
| A24-B15-C4;                | A24-B15-C5;                | A24-B15-C6;     | A24-B15-C1;   | A24-B15-C2; | A24-B15-C9; |
| A24-B15-C4;<br>A25-B15-C1; |                            | •               | A25-B15-C4;   | A25-B15-C5; | A25-B15-C6; |
|                            | A25-B15-C2;                | A25-B15-C3;     |               |             | A26-B15-C3; |
| A25-B15-C7;                | A25-B15-C8;                | A25-B15-C9;     | A26-B15-C1;   | A26-B15-C2; |             |
| A26-B15-C4;                | A26-B15-C5;                | A26-B15-C6;     | A26-B15-C7;   | A26-B15-C8; | A26-B15-C9; |
| A27-B15-C1;                | A27-B15-C2;                | A27-B15-C3;     | A27-B15-C4;   | A27-B15-C5; | A27-B15-C6; |
| A27-B15-C7;                | A27-B15-C8;                | A27-B15-C9;     | A28-B15-C1;   | A28-B15-C2; | A28-B15-C3; |
| A28-B15-C4;                | A28-B15-C5;                | A28-B15-C6;     | A28-B15-C7;   | A28-B15-C8; | A28-B15-C9; |
| A29-B15-C1;                | A29-B15-C2;                | A29-B15-C3;     | A29-B15-C4;   | A29-B15-C5; | A29-B15-C6; |
| A29-B15-C7;                | A29-B15-C8;                | A29-B15-C9;     | A30-B15-C1;   | A30-B15-C2; | A30-B15-C3; |
| A30-B15-C4;                | A30-B15-C5;                | A30-B15-C6;     | A30-B15-C7;   | A30-B15-C8; | A30-B15-C9; |
| A31-B15-C1;                | A31-B15-C2;                | A31-B15-C3;     | A31-B15-C4;   | A31-B15-C5; | A31-B15-C6; |

| A31-B15-C7;                | A31-B15-C8;                | A31-B15-C9;                | A32-B15-C1;                | A32-B15-C2;                | A32-B15-C3;                |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A32-B15-C4;                | A32-B15-C5;                | A32-B15-C6;                | A32-B15-C7;                | A32-B15-C8;                | A32-B15-C9;                |
| A33-B15-C1;                | A33-B15-C2;                | A33-B15-C3;                | A33-B15-C4;                | A33-B15-C5;                | A33-B15-C6;                |
| A33-B15-C7;                | A33-B15-C8;                | A33-B15-C9;                | A34-B15-C1;                | A34-B15-C2;                | A34-B15-C3;                |
| A34-B15-C4;                | A34-B15-C5;                | A34-B15-C6;                | A34-B15-C7;                | A34-B15-C8;                | A34-B15-C9;                |
| A35-B15-C1;                | A35-B15-C2;                | A35-B15-C3;                | A35-B15-C4;                | A35-B15-C5;                | A35-B15-C6;                |
| A35-B15-C7;                | A35-B15-C8;                | A35-B15-C9;                | A36-B15-C1;                | A36-B15-C2;                | A36-B15-C3;                |
| A36-B15-C4;                | A36-B15-C5;                | A36-B15-C6;                | A36-B15-C7;                | A36-B15-C8;                | A36-B15-C9;                |
| A37-B15-C1;                | A37-B15-C2;                | A37-B15-C3;                | A37-B15-C4;                | A37-B15-C5;                | A37-B15-C6;                |
| A37-B15-C7;                | A37-B15-C8;                | A37-B15-C9;                | A38-B15-C1;                | A38-B15-C2;                | A38-B15-C3;                |
| A38-B15-C4;                | A38-B15-C5;                | A38-B15-C6;                | A38-B15-C7;                | A38-B15-C8;                | A38-B15-C9;                |
| A39-B15-C1;                | A39-B15-C2;                | A39-B15-C3;                | A39-B15-C4;                | A39-B15-C5;                | A39-B15-C6;                |
| A39-B15-C7;                | A39-B15-C8;                | A39-B15-C9;                | A40-B15-C1;                | A40-B15-C2;                | A40-B15-C3;                |
| A40-B15-C4;                | A40-B15-C5;                | A40-B15-C6;                | A40-B15-C7;                | A40-B15-C8;                | A40-B15-C9;                |
| A41-B15-C1;                | A41-B15-C2;                | A41-B15-C3;                | A41-B15-C4;                | A41-B15-C5;                | A41-B15-C6;                |
| A41-B15-C7;                | A41-B15-C8;                | A41-B15-C9;                | A42-B15-C1;                | A42-B15-C2;                | A42-B15-C3;                |
| A42-B15-C4;                | A42-B15-C5;                | A42-B15-C6;                | A42-B15-C7;                | A42-B15-C8;                | A42-B15-C9;                |
| A43-B15-C1;                | A43-B15-C2;                | A43-B15-C3;                | A43-B15-C4;                | A43-B15-C5;                | A43-B15-C6;                |
| A43-B15-C7;                | A43-B15-C8;                | A43-B15-C9;                | A44-B15-C1;                | A44-B15-C2;                | A44-B15-C3;                |
| A44-B15-C4;                | A44-B15-C5;                | A44-B15-C6;                | A44-B15-C7;                | A44-B15-C8;                | A44-B15-C9;                |
| A45-B15-C1;                | A45-B15-C2;                | A45-B15-C3;                | A45-B15-C4;                | A45-B15-C5;                | A45-B15-C6;                |
| A45-B15-C7;                | A45-B15-C8;                | A45-B15-C9;                | A46-B15-C1;                | A46-B15-C2;                | A46-B15-C3;                |
| A46-B15-C4;                | A46-B15-C5;                | A46-B15-C6;                | A46-B15-C7;                | A46-B15-C8;                | A46-B15-C9;                |
| A47-B15-C1;                | A47-B15-C2;                | A47-B15-C3;                | A47-B15-C4;                | A47-B15-C5;                | A47-B15-C6;                |
| A47-B15-C7;                | A47-B15-C8;                | A47-B15-C9;                | A48-B15-C1;                | A48-B15-C2;                | A48-B15-C3;                |
| A48-B15-C4;                | A48-B15-C5;                | A48-B15-C6;                | A48-B15-C7;                | A48-B15-C8;                | A48-B15-C9;                |
| A49-B15-C1;                | A49-B15-C2;                | A49-B15-C3;                | A49-B15-C4;                | A49-B15-C5;                | A49-B15-C6;                |
| A49-B15-C7;                | A49-B15-C8;                | A49-B15-C9;                | A50-B15-C1;                | A50-B15-C2;                | A50-B15-C3;                |
| A50-B15-C4;                | A50-B15-C5;                | A50-B15-C6;                | A50-B15-C7;                | A50-B15-C8;                | A50-B15-C9;                |
| A51-B15-C1;                | A51-B15-C2;                | A51-B15-C3;                | A51-B15-C4;                | A51-B15-C5;                | A51-B15-C6;                |
| A51-B15-C7;                | A51-B15-C8;                | A51-B15-C9;                | A52-B15-C1;                | A52-B15-C2;                | A52-B15-C3;                |
| A52-B15-C4;                | A52-B15-C5;                | A52-B15-C6;                | A52-B15-C7;                | A52-B15-C8;                | A52-B15-C9;                |
| A53-B15-C1;                | A53-B15-C2;                | A53-B15-C3;                | A53-B15-C4;                | A53-B15-C5;<br>A54-B15-C2; | A53-B15-C6;<br>A54-B15-C3; |
| A53-B15-C7;<br>A54-B15-C4; | A53-B15-C8;<br>A54-B15-C5; | A53-B15-C9;<br>A54-B15-C6; | A54-B15-C1;<br>A54-B15-C7; | A54-B15-C2;                | A54-B15-C9;                |
| A55-B15-C1;                | A55-B15-C3;                | A54-B15-C0;<br>A55-B15-C3; | A54-B15-C7;<br>A55-B15-C4; | A54-B15-C8;<br>A55-B15-C5; | A55-B15-C6;                |
| A55-B15-C1;<br>A55-B15-C7; | A55-B15-C2;                | A55-B15-C9;                | A56-B15-C1;                | A56-B15-C3;                | A56-B15-C3;                |
| A56-B15-C4;                | A56-B15-C5;                | A56-B15-C6;                | A56-B15-C7;                | A56-B15-C2;                | A56-B15-C9;                |
| A50-B15-C4;<br>A57-B15-C1; | A50-B15-C3;                | A50-B15-C0;<br>A57-B15-C3; | A50-B15-C7;<br>A57-B15-C4; | A50-B15-C5;                | A57-B15-C6;                |
| A57-B15-C1;                | A57-B15-C2;                | A57-B15-C9;                | A58-B15-C1;                | A58-B15-C2;                | A58-B15-C3;                |
| A58-B15-C4;                | A58-B15-C5;                | A58-B15-C6;                | A58-B15-C7;                | A58-B15-C8;                | A58-B15-C9;                |
| A59-B15-C1;                | A59-B15-C2;                | A59-B15-C3;                | A59-B15-C4;                | A59-B15-C5;                | A59-B15-C6;                |
| A59-B15-C7;                | A59-B15-C8;                | A59-B15-C9;                | A60-B15-C1;                | A60-B15-C2;                | A60-B15-C3;                |
| A60-B15-C4;                | A60-B15-C5;                | A60-B15-C6;                | A60-B15-C7;                | A60-B15-C8;                | A60-B15-C9;                |
| A61-B15-C1;                | A61-B15-C2;                | A61-B15-C3;                | A61-B15-C4;                | A61-B15-C5;                | A61-B15-C6;                |
| A61-B15-C7;                | A61-B15-C8;                | A61-B15-C9;                | A62-B15-C1;                | A62-B15-C2;                | A62-B15-C3;                |
| A62-B15-C4;                | A62-B15-C5;                | A62-B15-C6;                | A62-B15-C7;                | A62-B15-C8;                | A62-B15-C9;                |
| A63-B15-C1;                | A63-B15-C2;                | A63-B15-C3;                | A63-B15-C4;                | A63-B15-C5;                | A63-B15-C6;                |
| A63-B15-C7;                | A63-B15-C8;                | A63-B15-C9;                | A64-B15-C1;                | A64-B15-C2;                | A64-B15-C3;                |
| A64-B15-C4;                | A64-B15-C5;                | A64-B15-C6;                | A64-B15-C7;                | A64-B15-C8;                | A64-B15-C9;                |
| A65-B15-C1;                | A65-B15-C2;                | A65-B15-C3;                | A65-B15-C4;                | A65-B15-C5;                | A65-B15-C6;                |
| A65-B15-C7;                | A65-B15-C8;                | A65-B15-C9;                | A66-B15-C1;                | A66-B15-C2;                | A66-B15-C3;                |
| A66-B15-C4;                | A66-B15-C5;                | A66-B15-C6;                | A66-B15-C7;                | A66-B15-C8;                | A66-B15-C9;                |
| A67-B15-C1;                | A67-B15-C2;                | A67-B15-C3;                | A67-B15-C4;                | A67-B15-C5;                | A67-B15-C6;                |
| A67-B15-C7;                | A67-B15-C8;                | A67-B15-C9;                | A68-B15-C1;                | A68-B15-C2;                | A68-B15-C3;                |
|                            |                            |                            |                            |                            |                            |

| A CO D 15 C4 | A ( 0 D 15 C 5 | A CO D 15 CC. | A 60 D 15 C7. | A 60 D 15 CO. | A 60 D 15 CO. |
|--------------|----------------|---------------|---------------|---------------|---------------|
| A68-B15-C4;  | A68-B15-C5;    | A68-B15-C6;   | A68-B15-C7;   | A68-B15-C8;   | A68-B15-C9;   |
| A69-B15-C1;  | A69-B15-C2;    | A69-B15-C3;   | A69-B15-C4;   | A69-B15-C5;   | A69-B15-C6;   |
| A69-B15-C7;  | A69-B15-C8;    | A69-B15-C9;   | A70-B15-C1;   | A70-B15-C2;   | A70-B15-C3;   |
| A70-B15-C4;  | A70-B15-C5;    | A70-B15-C6;   | A70-B15-C7;   | A70-B15-C8;   | A70-B15-C9;   |
| A71-B15-C1;  | A71-B15-C2;    | A71-B15-C3;   | A71-B15-C4;   | A71-B15-C5;   | A71-B15-C6;   |
| A71-B15-C7;  | A71-B15-C8;    | A71-B15-C9;   | A1-B16-C1;    | A1-B16-C2;    | AI-B16-C3;    |
| A1-B16-C4;   | A1-B16-C5;     | A1-B16-C6;    | A1-B16-C7;    | A1-B16-C8;    | A1-B16-C9;    |
| A2-B16-C1;   | A2-B16-C2;     | A2-B16-C3;    | A2-B16-C4;    | A2-B16-C5;    | A2-B16-C6;    |
| A2-B16-C7;   | A2-B16-C8;     | A2-B16-C9;    | A3-B16-C1;    | A3-B16-C2;    | A3-B16-C3;    |
| A3-B16-C4;   | A3-B16-C5;     | A3-B16-C6;    | A3-B16-C7;    | A3-B16-C8;    | A3-B16-C9;    |
| A4-B16-C1;   | A4-B16-C2;     | A4-B16-C3;    | A4-B16-C4;    | A4-B16-C5;    | A4-B16-C6;    |
| A4-B16-C7;   | A4-B16-C8;     | A4-B16-C9;    | A5-B16-C1;    | A5-B16-C2;    | A5-B16-C3;    |
| A5-B16-C4;   | A5-B16-C5;     | A5-B16-C6;    | A5-B16-C7;    | A5-B16-C8;    | A5-B16-C9;    |
| A6-B16-C1;   | A6-B16-C2;     | A6-B16-C3;    | A6-B16-C4;    | A6-B16-C5;    | A6-B16-C6;    |
| A6-B16-C7;   | A6-B16-C8;     | A6-B16-C9;    | A7-B16-C1;    | A7-B16-C2;    | A7-B16-C3;    |
| A7-B16-C4;   | A7-B16-C5;     | A7-B16-C6;    | A7-B16-C7;    | A7-B16-C8;    | A7-B16-C9;    |
| A8-B16-C1;   | A8-B16-C2;     | A8-B16-C3;    | A8-B16-C4;    | A8-B16-C5;    | A8-B16-C6;    |
| A8-B16-C7;   | A8-B16-C8;     | A8-B16-C9;    | A9-B16-C1;    | A9-B16-C2;    | A9-B16-C3;    |
| A9-B16-C4;   | A9-B16-C5;     | A9-B16-C6;    | A9-B16-C7;    | A9-B16-C8;    | A9-B16-C9;    |
| A10-B16-C1;  | A10-B16-C2;    | A10-B16-C3;   | A10-B16-C4;   | A10-B16-C5;   | A10-B16-C6;   |
| A10-B16-C7;  | A10-B16-C8;    | A10-B16-C9;   | A11-B16-C1;   | A11-B16-C2;   | A11-B16-C3;   |
| A11-B16-C4;  | A11-B16-C5;    | A11-B16-C6;   | A11-B16-C7;   | A11-B16-C8;   | A11-B16-C9;   |
| A12-B16-C1;  | A12-B16-C2;    | A12-B16-C3;   | A12-B16-C4;   | A12-B16-C5;   | A12-B16-C6;   |
| A12-B16-C7;  | A12-B16-C8;    | A12-B16-C9;   | A13-B16-C1;   | A13-B16-C2;   | A13-B16-C3;   |
| A13-B16-C4;  | A13-B16-C5;    | A13-B16-C6;   | A13-B16-C7;   | A13-B16-C8;   | A13-B16-C9;   |
| •            |                |               |               | A14-B16-C5;   | A14-B16-C6;   |
| A14-B16-C1;  | A14-B16-C2;    | A14-B16-C3;   | A14-B16-C4;   |               | A15-B16-C3;   |
| A14-B16-C7;  | A14-B16-C8;    | A14-B16-C9;   | A15-B16-C1;   | A15-B16-C2;   |               |
| A15-B16-C4;  | A15-B16-C5;    | A15-B16-C6;   | A15-B16-C7;   | A15-B16-C8;   | A15-B16-C9;   |
| A16-B16-C1;  | A16-B16-C2;    | A16-B16-C3;   | A16-B16-C4;   | A16-B16-C5;   | A16-B16-C6;   |
| A16-B16-C7;  | A16-B16-C8;    | A16-B16-C9;   | A17-B16-C1;   | A17-B16-C2;   | A17-B16-C3;   |
| A17-B16-C4;  | A17-B16-C5;    | A17-B16-C6;   | A17-B16-C7;   | A17-B16-C8;   | A17-B16-C9;   |
| A18-B16-C1;  | A18-B16-C2;    | A18-B16-C3;   | A18-B16-C4;   | A18-B16-C5;   | A18-B16-C6;   |
| A18-B16-C7;  | A18-B16-C8;    | A18-B16-C9;   | A19-B16-C1;   | A19-B16-C2;   | A19-B16-C3;   |
| A19-B16-C4;  | A19-B16-C5;    | A19-B16-C6;   | A19-B16-C7;   | A19-B16-C8;   | A19-B16-C9;   |
| A20-B16-C1;  | A20-B16-C2;    | A20-B16-C3;   | A20-B16-C4;   | A20-B16-C5;   | A20-B16-C6;   |
| A20-B16-C7;  | A20-B16-C8;    | A20-B16-C9;   | A21-B16-C1;   | A21-B16-C2;   | A21-B16-C3;   |
| A21-B16-C4;  | A21-B16-C5;    | A21-B16-C6;   | A21-B16-C7;   | A21-B16-C8;   | A21-B16-C9;   |
| A22-B16-C1;  | A22-B16-C2;    | A22-B16-C3;   | A22-B16-C4;   | A22-B16-C5;   | A22-B16-C6;   |
| A22-B16-C7;  | A22-B16-C8;    | A22-B16-C9;   | A23-B16-C1;   | A23-B16-C2;   | A23-B16-C3;   |
| A23-B16-C4;  | A23-B16-C5;    | A23-B16-C6;   | A23-B16-C7;   | A23-B16-C8;   | A23-B16-C9;   |
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| A24-B16-C7;  | A24-B16-C8;    | A24-B16-C9;   | A25-B16-C1;   | A25-B16-C2;   | A25-B16-C3;   |
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| A26-B16-C7;  | A26-B16-C8;    | A26-B16-C9;   | A27-B16-C1;   | A27-B16-C2;   | A27-B16-C3;   |
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| A28-B16-C7;  | A28-B16-C8;    | A28-B16-C9;   | A29-B16-C1;   | A29-B16-C2;   | A29-B16-C3;   |
| A29-B16-C4;  | A29-B16-C5;    | A29-B16-C6;   | A29-B16-C7;   | A29-B16-C8;   | A29-B16-C9;   |
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| A30-B16-C7;  | A30-B16-C8;    | A30-B16-C9;   | A31-B16-C1;   | A31-B16-C2;   | A31-B16-C3;   |
| A31-B16-C4;  | A31-B16-C5;    | A31-B16-C6;   | A31-B16-C7;   | A31-B16-C8;   | A31-B16-C9;   |
| A32-B16-C1;  | A32-B16-C2;    | A32-B16-C3;   | A32-B16-C4;   | A32-B16-C5;   | A32-B16-C6;   |
| A32-B16-C7;  | A32-B16-C8;    | A32-B16-C9;   | A33-B16-C1;   | A33-B16-C2;   | A33-B16-C3;   |
| A33-B16-C4;  | A33-B16-C5;    | A33-B16-C6;   | A33-B16-C7;   | A33-B16-C8;   | A33-B16-C9;   |
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| A34 B16 C1  | A34-B16-C2; | A24 B16 C2  | A34-B16-C4; | A34-B16-C5; | A34-B16-C6; |
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| A34-B16-C7; | A34-B16-C8; | A34-B16-C9; | A35-B16-C1; | A35-B16-C2; | A35-B16-C3; |
| A35-B16-C4; | A35-B16-C5; | A35-B16-C6; | A35-B16-C7; | A35-B16-C8; | A35-B16-C9; |
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| A36-B16-C7; | A36-B16-C8; | A36-B16-C9; | A37-B16-C1; | A37-B16-C2; | A37-B16-C3; |
| A37-B16-C4; | A37-B16-C5; | A37-B16-C6; | A37-B16-C7; | A37-B16-C8; | A37-B16-C9; |
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| A38-B16-C7; | A38-B16-C8; | A38-B16-C9; | A39-B16-C1; | A39-B16-C2; | A39-B16-C3; |
| A39-B16-C4; | A39-B16-C5; | A39-B16-C6; | A39-B16-C7; | A39-B16-C8; | A39-B16-C9; |
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| A40-B16-C7; | A40-B16-C8; | A40-B16-C9; | A41-B16-C1; | A41-B16-C2; | A41-B16-C3; |
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| A42-B16-C7; | A42-B16-C8; | A42-B16-C9; | A43-B16-C1; | A43-B16-C2; | A43-B16-C3; |
| A43-B16-C4; | A43-B16-C5; | A43-B16-C6; | A43-B16-C7; | A43-B16-C8; | A43-B16-C9; |
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| A44-B16-C7; | A44-B16-C8; | A44-B16-C9; | A45-B16-C1; | A45-B16-C2; | A45-B16-C3; |
| A45-B16-C4; | A45-B16-C5; | A45-B16-C6; | A45-B16-C7; | A45-B16-C8; | A45-B16-C9; |
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|             | A46-B16-C8; | A46-B16-C9; | A47-B16-C1; | A47-B16-C2; | A47-B16-C3; |
| A46-B16-C7; |             |             |             | ^           | A47-B16-C9; |
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| A48-B16-C7; | A48-B16-C8; | A48-B16-C9; | A49-B16-C1; | A49-B16-C2; | A49-B16-C3; |
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| A52-B16-C7; | A52-B16-C8; | A52-B16-C9; | A53-B16-C1; | A53-B16-C2; | A53-B16-C3; |
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| A54-B16-C7; | A54-B16-C8; | A54-B16-C9; | A55-B16-C1; | A55-B16-C2; | A55-B16-C3; |
| A55-B16-C4; | A55-B16-C5; | A55-B16-C6; | A55-B16-C7; | A55-B16-C8; | A55-B16-C9; |
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| A56-B16-C7; | A56-B16-C8; | A56-B16-C9; | A57-B16-C1; | A57-B16-C2; | A57-B16-C3; |
| A57-B16-C4; | A57-B16-C5; | A57-B16-C6; | A57-B16-C7; | A57-B16-C8; | A57-B16-C9; |
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| A58-B16-C7; | A58-B16-C8; | A58-B16-C9; | A59-B16-C1; | A59-B16-C2; | A59-B16-C3; |
| A59-B16-C4; | A59-B16-C5; | A59-B16-C6; | A59-B16-C7; | A59-B16-C8; | A59-B16-C9; |
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| A60-B16-C7; | A60-B16-C8; | A60-B16-C9; | A61-B16-C1; | A61-B16-C2; | A61-B16-C3; |
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| A62-B16-C7; | A62-B16-C8; | A62-B16-C9; | A63-B16-C1; | A63-B16-C2; | A63-B16-C3; |
| A63-B16-C4; | A63-B16-C5; | A63-B16-C6; | A63-B16-C7; | A63-B16-C8; | A63-B16-C9; |
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| A64-B16-C7; | A64-B16-C8; | A64-B16-C9; | A65-B16-C1; | A65-B16-C2; | A65-B16-C3; |
| A65-B16-C4; | A65-B16-C5; | A65-B16-C6; | A65-B16-C7; | A65-B16-C8; | A65-B16-C9; |
| A66-B16-C1; | A66-B16-C2; | A66-B16-C3; | A66-B16-C4; | A66-B16-C5; | A66-B16-C6; |
| A66-B16-C7; | A66-B16-C8; | A66-B16-C9; | A67-B16-C1; | A67-B16-C2; | A67-B16-C3; |
| A67-B16-C4; | A67-B16-C5; | A67-B16-C6; | A67-B16-C7; | A67-B16-C8; | A67-B16-C9; |
| A68-B16-C1; | A68-B16-C2; | A68-B16-C3; | A68-B16-C4; | A68-B16-C5; | A68-B16-C6; |
| A68-B16-C7; | A68-B16-C8; | A68-B16-C9; | A69-B16-C1; | A69-B16-C2; | A69-B16-C3; |
| A69-B16-C4; | A69-B16-C5; | A69-B16-C6; | A69-B16-C7; | A69-B16-C8; | A69-B16-C9; |
| A70-B16-C1; | A70-B16-C2; | A70-B16-C3; | A70-B16-C4; | A70-B16-C5; | A70-B16-C6; |
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| A70-B16-C7; | A70-B16-C8; | A70-B16-C9; | A71-B16-C1; | A71-B16-C2;                | A71-B16-C3; |
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| A71-B16-C4; | A71-B16-C5; | A71-B16-C6; | A71-B16-C7; | A71-B16-C8;                | A71-B16-C9; |
|             |             |             |             |                            |             |
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| A1-B17-C7;  | A1-B17-C8;  | A1-B17-C9;  | A2-B17-C1;  | A2-B17-C2;                 | A2-B17-C3;  |
| A2-B17-C4;  | A2-B17-C5;  | A2-B17-C6;  | A2-B17-C7;  | A2-B17-C8;                 | A2-B17-C9;  |
| A3-B17-C1;  | A3-B17-C2;  | A3-B17-C3;  | A3-B17-C4;  | A3-B17-C5;                 | A3-B17-C6;  |
| A3-B17-C7;  | A3-B17-C8;  | A3-B17-C9;  | A4-B17-C1;  | A4-B17-C2;                 | A4-B17-C3;  |
| A4-B17-C4;  | A4-B17-C5;  | A4-B17-C6;  | A4-B17-C7;  | A4-B17-C8;                 | A4-B17-C9;  |
| A5-B17-C1;  | A5-B17-C2;  | A5-B17-C3;  | A5-B17-C4;  | A5-B17-C5;                 | A5-B17-C6;  |
| A5-B17-C7;  | A5-B17-C8;  | A5-B17-C9;  | A6-B17-C1;  | ,A6-B17-C2;                | A6-B17-C3;  |
| A6-B17-C4;  | A6-B17-C5;  | A6-B17-C6;  | A6-B17-C7;  | A6-B17-C8;                 | A6-B17-C9;  |
| A7-B17-C1;  | A7-B17-C2;  | A7-B17-C3;  | A7-B17-C4;  | A7-B17-C5;                 | A7-B17-C6;  |
| A7-B17-C7;  | A7-B17-C8;  | A7-B17-C9;  | A8-B17-C1;  | A8-B17-C2;                 | A8-B17-C3;  |
| A8-B17-C4;  | A8-B17-C5;  | A8-B17-C6;  | A8-B17-C7;  | A8-B17-C8;                 | A8-B17-C9;  |
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| A9-B17-C7;  | A9-B17-C8;  | A9-B17-C9;  | A10-B17-C1; | A10-B17-C2;                | A10-B17-C3; |
| A10-B17-C4; | A10-B17-C5; | A10-B17-C6; | A10-B17-C7; | A10-B17-C8;                | A10-B17-C9; |
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| A11-B17-C7; | A11-B17-C8; | A11-B17-C9; | A12-B17-C1; | A12-B17-C2;                | A12-B17-C3; |
| A12-B17-C4; | A12-B17-C5; | A12-B17-C6; | A12-B17-C7; | A12-B17-C8;                | A12-B17-C9; |
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| A13-B17-C1; | A13-B17-C2; | A13-B17-C9; | A14-B17-C1; | A14-B17-C2;                | A14-B17-C3; |
|             |             | A14-B17-C6; |             |                            |             |
| A14-B17-C4; | A14-B17-C5; |             | A14-B17-C7; | A14-B17-C8;                | A14-B17-C9; |
| A15-B17-C1; | A15-B17-C2; | A15-B17-C3; | A15-B17-C4; | A15-B17-C5;                | A15-B17-C6; |
| A15-B17-C7; | A15-B17-C8; | A15-B17-C9; | A16-B17-C1; | A16-B17-C2;                | A16-B17-C3; |
| A16-B17-C4; | A16-B17-C5; | A16-B17-C6; | A16-B17-C7; | A16-B17-C8;                | A16-B17-C9; |
| A17-B17-C1; | A17-B17-C2; | A17-B17-C3; | A17-B17-C4; | A17-B17-C5;                | A17-B17-C6; |
| A17-B17-C7; | A17-B17-C8; | A17-B17-C9; | A18-B17-C1; | A18-B17-C2;                | A18-B17-C3; |
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| A19-B17-C7; | A19-B17-C8; | A19-B17-C9; | A20-B17-C1; | A20-B17-C2;                | A20-B17-C3; |
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| A23-B17-C7; | A23-B17-C8; | A23-B17-C9; | A24-B17-C1; | A24-B17-C2;                | A24-B17-C3; |
| A24-B17-C4; | A24-B17-C5; | A24-B17-C6; | A24-B17-C7; | A24-B17-C8;                | A24-B17-C9; |
| A25-B17-C1; | A25-B17-C2; | A25-B17-C3; | A25-B17-C4; | A25-B17-C5;                | A25-B17-C6; |
| A25-B17-C7; | A25-B17-C8; | A25-B17-C9; | A26-B17-C1; | A26-B17-C2;                | A26-B17-C3; |
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| A33-B17-C7; | A33-B17-C8; | A33-B17-C9; | A34-B17-C1; | A34-B17-C2;                | A34-B17-C3; |
| A34-B17-C4; | A34-B17-C5; | A34-B17-C6; | A34-B17-C7; | A34-B17-C8;                | A34-B17-C9; |
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| A36-B17-C4; | A36-B17-C5; | A36-B17-C6; | A36-B17-C7; | A36-B17-C8; | A36-B17-C9;  |
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| A37-B17-C7; | A37-B17-C8; | A37-B17-C9; | A38-B17-C1; | A38-B17-C2; | A38-B17-C3;  |
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| A39-B17-C7; | A39-B17-C8; | A39-B17-C9; | A40-B17-C1; | A40-B17-C2; | A40-B17-C3;  |
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| A41-B17-C7; | A41-B17-C8; | A41-B17-C9; | A42-B17-C1; | A42-B17-C2; | A42-B17-C3;  |
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| A45-B17-C7; | A45-B17-C8; | A45-B17-C9; | A46-B17-C1; | A46-B17-C2; | A46-B17-C3;  |
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| A47-B17-C7; | A47-B17-C8; | A47-B17-C9; | A48-B17-C1; | A48-B17-C2; | A48-B17-C3;  |
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| A65-B17-C7; | A65-B17-C8; | A65-B17-C9; | A66-B17-C1; | A66-B17-C2; | A66-B17-C3;  |
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| A67-B17-C7; | A67-B17-C8; | A67-B17-C9; | A68-B17-C1; | A68-B17-C2; | A68-B17-C3;  |
| A68-B17-C4; | A68-B17-C5; | A68-B17-C6; | A68-B17-C7; | A68-B17-C8; | A68-B17-C9;  |
| A69-B17-C1; | A69-B17-C2; | A69-B17-C3; | A69-B17-C4; | A69-B17-C5; | A69-B17-C6;  |
| A69-B17-C7; | A69-B17-C8; | A69-B17-C9; | A70-B17-C1; | A70-B17-C2; | A70-B17-C3;  |
| A70-B17-C4; | A70-B17-C5; | A70-B17-C6; | A70-B17-C7; | A70-B17-C8; | A70-B17-C9;  |
| A71-B17-C1; | A71-B17-C2; | A71-B17-C3; | A71-B17-C4; | A71-B17-C5; | A71-B17-C6;  |
| A71-B17-C7; | A71-B17-C8; | A71-B17-C9; | A1-B18-C1;  | A1-B18-C2;  | A1-B18-C3;   |
| A1-B18-C4;  | A1-B18-C5;  | A1-B18-C6;  | A1-B18-C7;  | A1-B18-C8;  | A1-B18-C9;   |
|             |             | •           | •           | •           | The state of the s |

| A2 B18 C1.                 | A2-B18-C2;                 | A2 D18 C2   | A2 D18 C4   | A2 D18 C5.  | A2 P18 C6.  |
|----------------------------|----------------------------|-------------|-------------|-------------|-------------|
| A2-B18-C1;                 |                            | A2-B18-C3;  | A2-B18-C4;  | A2-B18-C5;  | A2-B18-C6;  |
| A2-B18-C7;                 | A2-B18-C8;                 | A2-B18-C9;  | A3-B18-C1;  | A3-B18-C2;  | A3-B18-C3;  |
| A3-B18-C4;                 | A3-B18-C5;                 | A3-B18-C6;  | A3-B18-C7;  | A3-B18-C8;  | A3-B18-C9;  |
| A4-B18-C1;                 | A4-B18-C2;                 | A4-B18-C3;  | A4-B18-C4;  | A4-B18-C5;  | A4-B18-C6;  |
| A4-B18-C7;                 | A4-B18-C8;                 | A4-B18-C9;  | A5-B18-C1;  | A5-B18-C2;  | A5-B18-C3;  |
| A5-B18-C4;                 | A5-B18-C5;                 | A5-B18-C6;  | A5-B18-C7;  | A5-B18-C8;  | A5-B18-C9;  |
| A6-B18-C1;                 | A6-B18-C2;                 | A6-B18-C3;  | A6-B18-C4;  | A6-B18-C5;  | A6-B18-C6;  |
| A6-B18-C7;                 | A6-B18-C8;                 | A6-B18-C9;  | A7-B18-C1;  | A7-B18-C2;  | A7-B18-C3;  |
| A7-B18-C4;                 | A7-B18-C5;                 | A7-B18-C6;  | A7-B18-C7;  | A7-B18-C8;  | A7-B18-C9;  |
| A8-B18-C1;                 | A8-B18-C2;                 | A8-B18-C3;  | A8-B18-C4;  | A8-B18-C5;  | A8-B18-C6;  |
| A8-B18-C7;                 | A8-B18-C8;                 | A8-B18-C9;  | A9-B18-C1;  | A9-B18-C2;  | A9-B18-C3;  |
| A9-B18-C4;                 | A9-B18-C5;                 | A9-B18-C6;  | A9-B18-C7;  | A9-B18-C8;  | A9-B18-C9;  |
| A10-B18-C1;                | A10-B18-C2;                | A10-B18-C3; | A10-B18-C4; | A10-B18-C5; | A10-B18-C6; |
| A10-B18-C7;                | A10-B18-C8;                | A10-B18-C9; | A11-B18-C1; | A11-B18-C2; | A11-B18-C3; |
| A11-B18-C4;                | A11-B18-C5;                | A11-B18-C6; | A11-B18-C7; | A11-B18-C8; | A11-B18-C9; |
| A12-B18-C1;                | A12-B18-C2;                | A12-B18-C3; | A12-B18-C4; | A12-B18-C5; | A12-B18-C6; |
| A12-B18-C7;                | A12-B18-C8;                | A12-B18-C9; | A13-B18-C1; | A13-B18-C2; | A13-B18-C3; |
| A13-B18-C4;                | A13-B18-C5;                | A13-B18-C6; | A13-B18-C7; | A13-B18-C8; | A13-B18-C9; |
| A14-B18-C1;                | A14-B18-C2;                | A14-B18-C3; | A14-B18-C4; | A14-B18-C5; | A14-B18-C6; |
| A14-B18-C1;                | A14-B18-C2;<br>A14-B18-C8; | A14-B18-C9; |             | A14-B18-C3; |             |
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| A15-B18-C4;                | A15-B18-C5;                | A15-B18-C6; | A15-B18-C7; | A15-B18-C8; | A15-B18-C9; |
| A16-B18-C1;                | A16-B18-C2;                | A16-B18-C3; | A16-B18-C4; | A16-B18-C5; | A16-B18-C6; |
| A16-B18-C7;                | A16-B18-C8;                | A16-B18-C9; | A17-B18-C1; | A17-B18-C2; | A17-B18-C3; |
| A17-B18-C4;                | A17-B18-C5;                | A17-B18-C6; | A17-B18-C7; | A17-B18-C8; | A17-B18-C9; |
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| A18-B18-C7;                | A18-B18-C8;                | A18-B18-C9; | A19-B18-C1; | A19-B18-C2; | A19-B18-C3; |
| A19-B18-C4;                | A19-B18-C5;                | A19-B18-C6; | A19-B18-C7; | A19-B18-C8; | A19-B18-C9; |
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| A20-B18-C7;                | A20-B18-C8;                | A20-B18-C9; | A21-B18-C1; | A21-B18-C2; | A21-B18-C3; |
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| A23-B18-C4;                | A23-B18-C5;                | A23-B18-C6; | A23-B18-C7; | A23-B18-C8; | A23-B18-C9; |
| A24-B18-C1;                | A24-B18-C2;                | A24-B18-C3; | A24-B18-C4; | A24-B18-C5; | A24-B18-C6; |
| A24-B18-C7;                | A24-B18-C8;                | A24-B18-C9; | A25-B18-C1; | A25-B18-C2; | A25-B18-C3; |
| A25-B18-C4;                | A25-B18-C5;                | A25-B18-C6; | A25-B18-C7; | A25-B18-C8; | A25-B18-C9; |
| A26-B18-C1;                | A26-B18-C2;                | A26-B18-C3; | A26-B18-C4; | A26-B18-C5; | A26-B18-C6; |
| A26-B18-C7;                | A26-B18-C8;                | A26-B18-C9; | A27-B18-C1; | A27-B18-C2; | A27-B18-C3; |
| A27-B18-C4;                | A27-B18-C5;                | A27-B18-C6; | A27-B18-C7; | A27-B18-C8; | A27-B18-C9; |
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| A28-B18-C7;                | A28-B18-C8;                | A28-B18-C9; | A29-B18-C1; | A29-B18-C2; | A29-B18-C3; |
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| A30-B18-C1;                | A30-B18-C2;                | A30-B18-C3; | A30-B18-C4; | A30-B18-C5; | A30-B18-C6; |
| A30-B18-C1;                | •                          | A30-B18-C3; |             |             |             |
| A30-B18-C7;<br>A31-B18-C4; | A30-B18-C8;                |             | A31-B18-C1; | A31-B18-C2; | A31-B18-C3; |
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| A32-B18-C7;                | A32-B18-C8;                | A32-B18-C9; | A33-B18-C1; | A33-B18-C2; | A33-B18-C3; |
| A33-B18-C4;                | A33-B18-C5;                | A33-B18-C6; | A33-B18-C7; | A33-B18-C8; | A33-B18-C9; |
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| A34-B18-C7;                | A34-B18-C8;                | A34-B18-C9; | A35-B18-C1; | A35-B18-C2; | A35-B18-C3; |
| A35-B18-C4;                | A35-B18-C5;                | A35-B18-C6; | A35-B18-C7; | A35-B18-C8; | A35-B18-C9; |
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| A36-B18-C7;                | A36-B18-C8;                | A36-B18-C9; | A37-B18-C1; | A37-B18-C2; | A37-B18-C3; |
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| A38-B18-C7; | A38-B18-C8; | A38-B18-C9; | A39-B18-C1; | A39-B18-C2; | A39-B18-C3; |
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| A40-B18-C1; | A40-B18-C2; | A40-B18-C3; | A40-B18-C4; | A40-B18-C5; | A40-B18-C6; |
| A40-B18-C7; | A40-B18-C8; | A40-B18-C9; | A41-B18-C1; | A41-B18-C2; | A41-B18-C3; |
| A41-B18-C4; | A41-B18-C5; | A41-B18-C6; | A41-B18-C7; | A41-B18-C8; | A41-B18-C9; |
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| A42-B18-C7; | A42-B18-C8; | A42-B18-C9; | A43-B18-C1; | A43-B18-C2; | A43-B18-C3; |
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| A64-B18-C7; | A64-B18-C8; | A64-B18-C9; | A65-B18-C1; | A65-B18-C2; | A65-B18-C3; |
| A65-B18-C4; | A65-B18-C5; | A65-B18-C6; | A65-B18-C7; | A65-B18-C8; | A65-B18-C9; |
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| A66-B18-C7; | A66-B18-C8; | A66-B18-C9; | A67-B18-C1; | A67-B18-C2; | A67-B18-C3; |
| A67-B18-C4; | A67-B18-C5; | A67-B18-C6; | A67-B18-C7; | A67-B18-C8; | A67-B18-C9; |
| A68-B18-C1; | A68-B18-C2; | A68-B18-C3; | A68-B18-C4; | A68-B18-C5; | A68-B18-C6; |
| A68-B18-C7; | A68-B18-C8; | A68-B18-C9; | A69-B18-C1; | A69-B18-C2; | A69-B18-C3; |
| A69-B18-C4; | A69-B18-C5; | A69-B18-C6; | A69-B18-C7; | A69-B18-C8; | A69-B18-C9; |
| A70-B18-C1; | A70-B18-C2; | A70-B18-C3; | A70-B18-C4; | A70-B18-C5; | A70-B18-C6; |
| A70-B18-C7; | A70-B18-C8; | A70-B18-C9; | A71-B18-C1; | A71-B18-C2; | A71-B18-C3; |
| A71-B18-C4; | A71-B18-C5; | A71-B18-C6; | A71-B18-C7; | A71-B18-C8; | A71-B18-C9; |
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| A1-B19-C7;  | A1-B19-C8;  | A1-B19-C9;  | A2-B19-C1;  | A2-B19-C2;  | A2-B19-C3;  |
| A2-B19-C4;  | A2-B19-C5;  | A2-B19-C6;  | A2-B19-C7;  | A2-B19-C8;  | A2-B19-C9;  |
| A3-B19-C1;  | A3-B19-C2;  | A3-B19-C3;  | A3-B19-C4;  | A3-B19-C5;  | A3-B19-C6;  |
| A3-B19-C7;  | A3-B19-C8;  | A3-B19-C9;  | A4-B19-C1;  | A4-B19-C2;  | A4-B19-C3;  |
|             |             |             |             |             |             |

| A4-B19-C4;                 | A4-B19-C5;                 | A4-B19-C6;                 | A4-B19-C7;                 | A4-B19-C8;                 | A4-B19-C9;                 |
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| A5-B19-C1;                 | A5-B19-C2;                 | A5-B19-C3;                 | A5-B19-C4;                 | A5-B19-C5;                 | A5-B19-C6;                 |
| A5-B19-C7;                 | A5-B19-C8;                 | A5-B19-C9;                 | A6-B19-C1;                 | A6-B19-C2;                 | A6-B19-C3;                 |
| A6-B19-C4;                 | A6-B19-C5;                 | A6-B19-C6;                 | A6-B19-C7;                 | A6-B19-C8;                 | A6-B19-C9;                 |
| A7-B19-C1;                 | A7-B19-C2;                 | A7-B19-C3;                 | A7-B19-C4;                 | A7-B19-C5;                 | A7-B19-C6;                 |
| A7-B19-C7;                 | A7-B19-C8;                 | A7-B19-C9;                 | A8-B19-C1;                 | A8-B19-C2;                 | A8-B19-C3;                 |
| A8-B19-C4;                 | A8-B19-C5;                 | A8-B19-C6;                 | A8-B19-C7;                 | A8-B19-C8;                 | A8-B19-C9;                 |
| A9-B19-C1;                 | A9-B19-C2;                 | A9-B19-C3;                 | A9-B19-C4;                 | A9-B19-C5;                 | A9-B19-C6;                 |
| A9-B19-C7;                 | A9-B19-C8;                 | A9-B19-C9;                 | A10-B19-C1;                | A10-B19-C2;                | A10-B19-C3;                |
| A10-B19-C4;                | A10-B19-C5;                | A10-B19-C6;                | A10-B19-C7;                | A10-B19-C8;                | A10-B19-C9;                |
| A11-B19-C1;                | A11-B19-C2;                | A11-B19-C3;                | A11-B19-C4;                | A11-B19-C5;                | A11-B19-C6;                |
| A11-B19-C7;                | A11-B19-C8;                | A11-B19-C9;                | A12-B19-C1;                | A12-B19-C2;                | A12-B19-C3;                |
| A12-B19-C4;                | A12-B19-C5;                | A12-B19-C6;                | A12-B19-C7;                | A12-B19-C8;                | A12-B19-C9;                |
| A13-B19-C1;                | A13-B19-C2;                | A13-B19-C3;                | A13-B19-C4;                | A13-B19-C5;                | A13-B19-C6;                |
| A13-B19-C7;                | A13-B19-C8;                | A13-B19-C9;                | A14-B19-C1;                | A14-B19-C2;                | A14-B19-C3;                |
| A14-B19-C4;                | A14-B19-C5;                | A14-B19-C6;                | A14-B19-C7;                | A14-B19-C8;                | A14-B19-C9;                |
| A15-B19-C1;                | A15-B19-C2;                | A15-B19-C3;                | A15-B19-C4;                | A15-B19-C5;                | A15-B19-C6;                |
| A15-B19-C7;                | A15-B19-C8;                | A15-B19-C9;                | A16-B19-C1;                | A16-B19-C2;                | A16-B19-C3;                |
| A16-B19-C4;                | A16-B19-C5;                | A16-B19-C6;                | A16-B19-C7;                | A16-B19-C8;                | A16-B19-C9;                |
| A17-B19-C1;                | A17-B19-C2;                | A17-B19-C3;                | A17-B19-C4;                | A17-B19-C5;                | A17-B19-C6;                |
| A17-B19-C7;                | A17-B19-C8;                | A17-B19-C9;                | A18-B19-C1;                | A18-B19-C2;                | A18-B19-C3;                |
| A18-B19-C4;                | A18-B19-C5;                | A18-B19-C6;                | A18-B19-C7;                | A18-B19-C8;                | A18-B19-C9;                |
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| A19-B19-C7;                | A19-B19-C8;                | A19-B19-C9;                | A20-B19-C1;                | A20-B19-C2;                | A20-B19-C3;                |
| A20-B19-C4;                | A20-B19-C5;                | A20-B19-C6;                | A20-B19-C7;                | A20-B19-C8;                | A20-B19-C9;                |
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| A21-B19-C7;                | A21-B19-C8;                | A21-B19-C9;                | A22-B19-C1;                | A22-B19-C2;                | A22-B19-C3;                |
| A22-B19-C4;                | A22-B19-C5;                | A22-B19-C6;                | A22-B19-C7;                | A22-B19-C8;                | A22-B19-C9;                |
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| A23-B19-C7;                | A23-B19-C8;                | A23-B19-C9;                | A24-B19-C1;                | A24-B19-C2;                | A24-B19-C3;                |
| A24-B19-C4;                | A24-B19-C5;                | A24-B19-C6;                | A24-B19-C7;                | A24-B19-C8;                | A24-B19-C9;                |
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| A25-B19-C7;                | A25-B19-C8;                | A25-B19-C9;                | A26-B19-C1;                | A26-B19-C2;                | A26-B19-C3;                |
| A26-B19-C4;<br>A27-B19-C1; | A26-B19-C5;                | A26-B19-C6;<br>A27-B19-C3; | A26-B19-C7;                | A26-B19-C8;                | A26-B19-C9;                |
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| A31-B19-C7;                | A31-B19-C8;                | A31-B19-C9;                | A32-B19-C1;                | A32-B19-C2;                | A32-B19-C3;                |
| A32-B19-C4;                | A32-B19-C5;                | A32-B19-C6;                | A32-B19-C7;                | A32-B19-C8;                | A32-B19-C9;                |
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| A33-B19-C7;                | A33-B19-C8;                | A33-B19-C9;                | A34-B19-C1;                | A34-B19-C2;                | A34-B19-C3;                |
| A34-B19-C4;                | A34-B19-C5;                | A34-B19-C6;                | A34-B19-C7;                | A34-B19-C8;                | A34-B19-C9;                |
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| A35-B19-C7;                | A35-B19-C8;                | A35-B19-C9;                | A36-B19-C1;                | A36-B19-C2;                | A36-B19-C3;                |
| A36-B19-C4;                | A36-B19-C5;                | A36-B19-C6;                | A36-B19-C7;                | A36-B19-C8;                | A36-B19-C9;                |
| A37-B19-C1;                | A37-B19-C2;                | A37-B19-C3;                | A37-B19-C4;                | A37-B19-C5;                | A37-B19-C6;                |
| A37-B19-C7;                | A37-B19-C8;                | A37-B19-C9;                | A38-B19-C1;                | A38-B19-C2;                | A38-B19-C3;                |
| A38-B19-C4;                | A38-B19-C5;                | A38-B19-C6;                | A38-B19-C7;                | A38-B19-C8;                | A38-B19-C9;                |
| A39-B19-C1;                | A39-B19-C2;                | A39-B19-C3;                | A39-B19-C4;                | A39-B19-C5;                | A39-B19-C6;                |
| A39-B19-C7;                | A39-B19-C8;                | A39-B19-C9;                | A40-B19-C1;                | A40-B19-C2;                | A40-B19-C3;                |
| A40-B19-C4;                | A40-B19-C5;                | A40-B19-C6;                | A40-B19-C7;                | A40-B19-C8;                | A40-B19-C9;                |
|                            |                            |                            |                            |                            |                            |

| A41-B19-C1;                | A41-B19-C2;                | A41-B19-C3;                | A41-B19-C4;                | A41-B19-C5;                | A41-B19-C6;                |
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| A41-B19-C7;                | A41-B19-C8;                | A41-B19-C9;                | A42-B19-C1;                | A42-B19-C2;                | A42-B19-C3;                |
| A42-B19-C4;                | A42-B19-C5;                | A42-B19-C6;                | A42-B19-C7;                | A42-B19-C8;                | A42-B19-C9;                |
| A43-B19-C1;                | A43-B19-C2;                | A43-B19-C3;                | A43-B19-C4;                | A43-B19-C5;                | A43-B19-C6;                |
| A43-B19-C7;                | A43-B19-C8;                | A43-B19-C9;                | A44-B19-C1;                | A44-B19-C2;                | A44-B19-C3;                |
| A44-B19-C4;                | A44-B19-C5;                | A44-B19-C6;                | A44-B19-C7;                | A44-B19-C8;                | A44-B19-C9;                |
| A45-B19-C1;                | A45-B19-C2;                | A45-B19-C3;                | A45-B19-C4;                | A45-B19-C5;                | A45-B19-C6;                |
| A45-B19-C7;                | A45-B19-C8;                | A45-B19-C9;                | A46-B19-C1;                | A46-B19-C2;                | A46-B19-C3;                |
| A46-B19-C4;                | A46-B19-C5;                | A46-B19-C6;                | A46-B19-C7;                | A46-B19-C8;                | A46-B19-C9;                |
| A47-B19-C1;                | A47-B19-C2;                | A47-B19-C3;                | A47-B19-C4;                | A47-B19-C5;                | A47-B19-C6;                |
| A47-B19-C7;                | A47-B19-C8;                | A47-B19-C9;                | A48-B19-C1;                | A48-B19-C2;                | A48-B19-C3;                |
| A48-B19-C4;                | A48-B19-C5;                | A48-B19-C6;                | A48-B19-C7;                | A48-B19-C8;                | A48-B19-C9;                |
| A49-B19-C1;                | A49-B19-C2;                | A49-B19-C3;                | A49-B19-C4;                | A49-B19-C5;                | A49-B19-C6;                |
| A49-B19-C7;                | A49-B19-C8;                | A49-B19-C9;                | A50-B19-C1;                | A50-B19-C2;                | A50-B19-C3;                |
| A50-B19-C4;                | A50-B19-C5;                | A50-B19-C6;                | A50-B19-C7;                | A50-B19-C8;                | A50-B19-C9;                |
| A51-B19-C1;                | A51-B19-C2;                | A51-B19-C3;                | A51-B19-C4;                | A51-B19-C5;                | A51-B19-C6;                |
| A51-B19-C7;                | A51-B19-C8;                | A51-B19-C9;                | A52-B19-C1;                | A52-B19-C2;                | A52-B19-C3;                |
| A52-B19-C4;                | A52-B19-C5;                | A52-B19-C6;                | A52-B19-C7;                | A52-B19-C8;                | A52-B19-C9;                |
| A53-B19-C1;                | A53-B19-C2;                | A53-B19-C3;                | A53-B19-C4;                | A53-B19-C5;                | A53-B19-C6;                |
| A53-B19-C7;                | A53-B19-C8;                | A53-B19-C9;                | A54-B19-C1;                | A54-B19-C2;                | A54-B19-C3;                |
| A54-B19-C4;                | A54-B19-C5;                | A54-B19-C6;                | A54-B19-C7;                | A54-B19-C8;                | A54-B19-C9;                |
| A55-B19-C1;                | A55-B19-C2;                | A55-B19-C3;                | A55-B19-C4;                | A55-B19-C5;                | A55-B19-C6;                |
| A55-B19-C7;                | A55-B19-C8;                | A55-B19-C9;                | A56-B19-C1;                | A56-B19-C2;                | A56-B19-C3;                |
| A56-B19-C4;                | A56-B19-C5;                | A56-B19-C6;                | A56-B19-C7;                | A56-B19-C8;                | A56-B19-C9;                |
| A57-B19-C1;                | A57-B19-C2;                | A57-B19-C3;                | A57-B19-C4;                | A57-B19-C5;                | A57-B19-C6;                |
| A57-B19-C7;                | A57-B19-C8;                | A57-B19-C9;                | A58-B19-C1;                | A58-B19-C2;                | A58-B19-C3;                |
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| A61-B19-C7;                | A61-B19-C8;                | A61-B19-C9;                | A62-B19-C1;                | A62-B19-C2;                | A62-B19-C3;                |
| A62-B19-C4;                | A62-B19-C5;                | A62-B19-C6;                | A62-B19-C7;                | A62-B19-C8;                | A62-B19-C9;                |
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| A63-B19-C7;                | A63-B19-C8;                | A63-B19-C9;                | A64-B19-C1;                | A64-B19-C2;                | A64-B19-C3;                |
| A64-B19-C4;                | A64-B19-C5;                | A64-B19-C6;                | A64-B19-C7;                | A64-B19-C8;                | A64-B19-C9;                |
| A65-B19-C1;                | A65-B19-C2;                | A65-B19-C3;                | A65-B19-C4;                | A65-B19-C5;                | A65-B19-C6;                |
| A65-B19-C7;                | A65-B19-C8;                | A65-B19-C9;                | A66-B19-C1;                | A66-B19-C2;                | A66-B19-C3;                |
| A66-B19-C4;                | A66-B19-C5;                | A66-B19-C6;                | A66-B19-C7;                | A66-B19-C8;                | A66-B19-C9;                |
| A67-B19-C1;                | A67-B19-C2;                | A67-B19-C3;                | A67-B19-C4;                | A67-B19-C5;                | A67-B19-C6;                |
| A67-B19-C7;<br>A68-B19-C4; | A67-B19-C8;                | A67-B19-C9;<br>A68-B19-C6; | A68-B19-C1;                | A68-B19-C2;                | A68-B19-C3;                |
| A69-B19-C4;                | A68-B19-C5;                | A69-B19-C0;                | A68-B19-C7;<br>A69-B19-C4; | A68-B19-C8;<br>A69-B19-C5; | A68-B19-C9;                |
| A69-B19-C1;                | A69-B19-C2;<br>A69-B19-C8; | A69-B19-C3;                | A70-B19-C4;                | A70-B19-C3;                | A69-B19-C6;<br>A70-B19-C3; |
| A70-B19-C4;                | A70-B19-C6;                | A70-B19-C6;                | A70-B19-C1;<br>A70-B19-C7; | A70-B19-C2;                | A70-B19-C3;<br>A70-B19-C9; |
| A71-B19-C1;                | A71-B19-C2;                | A71-B19-C0;                | A71-B19-C4;                | A71-B19-C5;                | A71-B19-C6;                |
| A71-B19-C1;                | A71-B19-C2;<br>A71-B19-C8; | A71-B19-C3;                | A1-B20-C1;                 | A1-B20-C2;                 | A1-B20-C3;                 |
| A1-B20-C4;                 | A1-B20-C5;                 | A1-B20-C6;                 | A1-B20-C1;                 | A1-B20-C2;<br>A1-B20-C8;   | A1-B20-C3;<br>A1-B20-C9;   |
| A2-B20-C1;                 | A2-B20-C2;                 | A1-B20-C0;<br>A2-B20-C3;   | A1-B20-C7;<br>A2-B20-C4;   | A1-B20-C6;<br>A2-B20-C5;   | A1-B20-C9;<br>A2-B20-C6;   |
| A2-B20-C1;<br>A2-B20-C7;   | A2-B20-C2;<br>A2-B20-C8;   | A2-B20-C3;<br>A2-B20-C9;   | A2-B20-C4,<br>A3-B20-C1;   | A3-B20-C3;                 | A3-B20-C3;                 |
| A3-B20-C4;                 | A3-B20-C5;                 | A3-B20-C6;                 | A3-B20-C1,<br>A3-B20-C7;   | A3-B20-C2,<br>A3-B20-C8;   | A3-B20-C3;                 |
| A3-B20-C4;<br>A4-B20-C1;   | A4-B20-C2;                 | A3-B20-C0,<br>A4-B20-C3;   | A4-B20-C4;                 | A3-B20-C8;<br>A4-B20-C5;   | A3-B20-C9;<br>A4-B20-C6;   |
| A4-B20-C7;                 | A4-B20-C2;<br>A4-B20-C8;   | A4-B20-C3;<br>A4-B20-C9;   | A5-B20-C1;                 | A4-B20-C3;<br>A5-B20-C2;   | A5-B20-C3;                 |
| A5-B20-C4;                 | A5-B20-C5;                 | A5-B20-C6;                 | A5-B20-C1;<br>A5-B20-C7;   | A5-B20-C2,<br>A5-B20-C8;   | A5-B20-C3;<br>A5-B20-C9;   |
| A6-B20-C1;                 | A6-B20-C3;                 | A6-B20-C3;                 | A6-B20-C4;                 | A6-B20-C5;                 | A6-B20-C6;                 |
| 110 D20-C1,                | .10 020 02,                | 110 1120-03,               | 110 D20-CT,                | 110 020-03,                | 110-D20-CO,                |

| A6-B20-C7;  | A6-B20-C8;  | A6-B20-C9;  | A7-B20-C1;  | A7-B20-C2;  | A7-B20-C3;  |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A7-B20-C4;  |             | A7-B20-C6;  |             | A7-B20-C2;  | A7-B20-C9;  |
|             | A7-B20-C5;  | '           | A7-B20-C7;  |             |             |
| A8-B20-C1;  | A8-B20-C2;  | A8-B20-C3;  | A8-B20-C4;  | A8-B20-C5;  | A8-B20-C6;  |
| A8-B20-C7;  | A8-B20-C8;  | A8-B20-C9;  | A9-B20-C1;  | A9-B20-C2;  | A9-B20-C3;  |
| A9-B20-C4;  | A9-B20-C5;  | A9-B20-C6;  | A9-B20-C7;  | A9-B20-C8;  | A9-B20-C9;  |
| A10-B20-C1; | A10-B20-C2; | A10-B20-C3; | A10-B20-C4; | A10-B20-C5; | A10-B20-C6; |
| A10-B20-C7; | A10-B20-C8; | A10-B20-C9; | A11-B20-C1; | A11-B20-C2; | A11-B20-C3; |
| A11-B20-C4; | A11-B20-C5; | A11-B20-C6; | A11-B20-C7; | A11-B20-C8; | A11-B20-C9; |
| A12-B20-C1; | A12-B20-C2; | A12-B20-C3; | A12-B20-C4; | A12-B20-C5; | A12-B20-C6; |
| A12-B20-C7; | A12-B20-C8; | A12-B20-C9; | A13-B20-C1; | A13-B20-C2; | A13-B20-C3; |
| A13-B20-C4; | A13-B20-C5; | A13-B20-C6; | A13-B20-C7; | A13-B20-C8; | A13-B20-C9; |
| A14-B20-C1; | A14-B20-C2; | A14-B20-C3; | A14-B20-C4; | A14-B20-C5; | A14-B20-C6; |
| A14-B20-C7; | A14-B20-C8; | A14-B20-C9; | A15-B20-C1; | A15-B20-C2; | A15-B20-C3; |
| A15-B20-C4; | A15-B20-C5; | A15-B20-C6; | A15-B20-C7; | A15-B20-C8; | A15-B20-C9; |
| A16-B20-C1; | A16-B20-C2; | A16-B20-C3; | A16-B20-C4; | A16-B20-C5; | A16-B20-C6; |
| A16-B20-C7; | A16-B20-C8; | A16-B20-C9; | A17-B20-C1; | A17-B20-C2; | A17-B20-C3; |
| A17-B20-C4; | A17-B20-C5; | A17-B20-C6; | A17-B20-C7; | A17-B20-C8; | A17-B20-C9; |
| A18-B20-C1; | A18-B20-C2; | A18-B20-C3; | A18-B20-C4; | A18-B20-C5; | A18-B20-C6; |
| A18-B20-C7; | A18-B20-C8; | A18-B20-C9; | A19-B20-C1; | A19-B20-C2; | A19-B20-C3; |
| A19-B20-C4; | A19-B20-C5; | A19-B20-C6; | A19-B20-C7; | A19-B20-C8; | A19-B20-C9; |
| A20-B20-C1; | A20-B20-C2; | A20-B20-C3; | A20-B20-C4; | A20-B20-C5; | A20-B20-C6; |
| A20-B20-C7; | A20-B20-C8; | A20-B20-C9; | A21-B20-C1; | A21-B20-C2; | A21-B20-C3; |
| A21-B20-C4; | A21-B20-C5; | A21-B20-C6; | A21-B20-C7; | A21-B20-C8; | A21-B20-C9; |
| A22-B20-C1; | A22-B20-C2; | A22-B20-C3; | A22-B20-C4; | A22-B20-C5; | A22-B20-C6; |
| A22-B20-C7; | A22-B20-C8; | A22-B20-C9; | A23-B20-C1; | A23-B20-C2; | A23-B20-C3; |
| A23-B20-C4; | A23-B20-C5; | A23-B20-C6; | A23-B20-C1; | A23-B20-C2; | A23-B20-C9; |
| A24-B20-C1; | A24-B20-C2; | A24-B20-C3; | A24-B20-C4; | A24-B20-C5; | A24-B20-C6; |
| A24-B20-C7; | A24-B20-C2; | A24-B20-C9; | A25-B20-C1; | A25-B20-C2; | A25-B20-C3; |
| A25-B20-C4; | A25-B20-C5; | A25-B20-C6; | A25-B20-C7; | A25-B20-C2; |             |
| A26-B20-C1; | A26-B20-C3; |             |             |             | A25-B20-C9; |
|             |             | A26-B20-C3; | A26-B20-C4; | A26-B20-C5; | A26-B20-C6; |
| A26-B20-C7; | A26-B20-C8; | A26-B20-C9; | A27-B20-C1; | A27-B20-C2; | A27-B20-C3; |
| A27-B20-C4; | A27-B20-C5; | A27-B20-C6; | A27-B20-C7; | A27-B20-C8; | A27-B20-C9; |
| A28-B20-C1; | A28-B20-C2; | A28-B20-C3; | A28-B20-C4; | A28-B20-C5; | A28-B20-C6; |
| A28-B20-C7; | A28-B20-C8; | A28-B20-C9; | A29-B20-C1; | A29-B20-C2; | A29-B20-C3; |
| A29-B20-C4; | A29-B20-C5; | A29-B20-C6; | A29-B20-C7; | A29-B20-C8; | A29-B20-C9; |
| A30-B20-C1; | A30-B20-C2; | A30-B20-C3; | A30-B20-C4; | A30-B20-C5; | A30-B20-C6; |
| A30-B20-C7; | A30-B20-C8; | A30-B20-C9; | A31-B20-C1; | A31-B20-C2; | A31-B20-C3; |
| A31-B20-C4; | A31-B20-C5; | A31-B20-C6; | A31-B20-C7; | A31-B20-C8; | A31-B20-C9; |
| A32-B20-C1; | A32-B20-C2; | A32-B20-C3; | A32-B20-C4; | A32-B20-C5; | A32-B20-C6; |
| A32-B20-C7; | A32-B20-C8; | A32-B20-C9; | A33-B20-C1; | A33-B20-C2; | A33-B20-C3; |
| A33-B20-C4; | A33-B20-C5; | A33-B20-C6; | A33-B20-C7; | A33-B20-C8; | A33-B20-C9; |
| A34-B20-C1; | A34-B20-C2; | A34-B20-C3; | A34-B20-C4; | A34-B20-C5; | A34-B20-C6; |
| A34-B20-C7; | A34-B20-C8; | A34-B20-C9; | A35-B20-C1; | A35-B20-C2; | A35-B20-C3; |
| A35-B20-C4; | A35-B20-C5; | A35-B20-C6; | A35-B20-C7; | A35-B20-C8; | A35-B20-C9; |
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| A36-B20-C7; | A36-B20-C8; | A36-B20-C9; | A37-B20-C1; | A37-B20-C2; | A37-B20-C3; |
| A37-B20-C4; | A37-B20-C5; | A37-B20-C6; | A37-B20-C7; | A37-B20-C8; | A37-B20-C9; |
| A38-B20-C1; | A38-B20-C2; | A38-B20-C3; | A38-B20-C4; | A38-B20-C5; | A38-B20-C6; |
| A38-B20-C7; | A38-B20-C8; | A38-B20-C9; | A39-B20-C1; | A39-B20-C2; | A39-B20-C3; |
| A39-B20-C4; | A39-B20-C5; | A39-B20-C6; | A39-B20-C7; | A39-B20-C8; | A39-B20-C9; |
| A40-B20-C1; | A40-B20-C2; | A40-B20-C3; | A40-B20-C4; | A40-B20-C5; | A40-B20-C6; |
| A40-B20-C7; | A40-B20-C8; | A40-B20-C9; | A41-B20-C1; | A41-B20-C2; | A41-B20-C3; |
| A41-B20-C4; | A41-B20-C5; | A41-B20-C6; | A41-B20-C7; | A41-B20-C8; | A41-B20-C9; |
| A42-B20-C1; | A42-B20-C2; | A42-B20-C3; | A42-B20-C4; | A42-B20-C5; | A42-B20-C6; |
| A42-B20-C7; | A42-B20-C8; | A42-B20-C9; | A43-B20-C1; | A43-B20-C2; | A43-B20-C3; |
|             |             |             |             |             |             |

| A43-B20-C4; | A43-B20-C5; | A43-B20-C6; | A43-B20-C7;                | A43-B20-C8;                | A43-B20-C9; |
|-------------|-------------|-------------|----------------------------|----------------------------|-------------|
| A44-B20-C1; | A44-B20-C2; | A44-B20-C3; | A44-B20-C4;                | A44-B20-C5;                | A44-B20-C6; |
| A44-B20-C7; | A44-B20-C8; | A44-B20-C9; | A45-B20-C1;                | A45-B20-C2;                | A45-B20-C3; |
| A45-B20-C4; | A45-B20-C5; | A45-B20-C6; | A45-B20-C7;                | A45-B20-C8;                | A45-B20-C9; |
| A46-B20-C1; | A46-B20-C2; | A46-B20-C3; | A46-B20-C4;                | A46-B20-C5:                | A46-B20-C6; |
| A46-B20-C7; | A46-B20-C8; | A46-B20-C9; | A47-B20-C1;                | A47-B20-C2;                | A47-B20-C3; |
| A47-B20-C4; | A47-B20-C5; | A47-B20-C6; | A47-B20-C1;<br>A47-B20-C7; | A47-B20-C2;<br>A47-B20-C8; | A47-B20-C9; |
| ′           |             |             |                            |                            |             |
| A48-B20-C1; | A48-B20-C2; | A48-B20-C3; | A48-B20-C4;                | A48-B20-C5;                | A48-B20-C6; |
| A48-B20-C7; | A48-B20-C8; | A48-B20-C9; | A49-B20-C1;                | A49-B20-C2;                | A49-B20-C3; |
| A49-B20-C4; | A49-B20-C5; | A49-B20-C6; | A49-B20-C7;                | A49-B20-C8;                | A49-B20-C9; |
| A50-B20-C1; | A50-B20-C2; | A50-B20-C3; | A50-B20-C4;                | A50-B20-C5;                | A50-B20-C6; |
| A50-B20-C7; | A50-B20-C8; | A50-B20-C9; | A51-B20-C1;                | A51-B20-C2;                | A51-B20-C3; |
| A51-B20-C4; | A51-B20-C5; | A51-B20-C6; | A51-B20-C7;                | A51-B20-C8;                | A51-B20-C9; |
| A52-B20-C1; | A52-B20-C2; | A52-B20-C3; | A52-B20-C4;                | A52-B20-C5;                | A52-B20-C6; |
| A52-B20-C7; | A52-B20-C8; | A52-B20-C9; | A53-B20-C1;                | A53-B20-C2;                | A53-B20-C3; |
| A53-B20-C4; | A53-B20-C5; | A53-B20-C6; | A53-B20-C7;                | A53-B20-C8;                | A53-B20-C9; |
| A54-B20-C1; | A54-B20-C2; | A54-B20-C3; | A54-B20-C4;                | A54-B20-C5;                | A54-B20-C6; |
| A54-B20-C7; | A54-B20-C8; | A54-B20-C9; | A55-B20-C1;                | A55-B20-C2;                | A55-B20-C3; |
| A55-B20-C4; | A55-B20-C5; | A55-B20-C6; | A55-B20-C7;                | A55-B20-C8;                | A55-B20-C9; |
| A56-B20-C1; | A56-B20-C2; | A56-B20-C3; | A56-B20-C4;                | A56-B20-C5;                | A56-B20-C6; |
| A56-B20-C7; | A56-B20-C8; | A56-B20-C9; | A57-B20-C1;                | A57-B20-C2;                | A57-B20-C3; |
| A57-B20-C4; | A57-B20-C5; | A57-B20-C6; | A57-B20-C7;                | A57-B20-C8;                | A57-B20-C9; |
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| A58-B20-C7; | A58-B20-C8; | A58-B20-C9; | A59-B20-C1;                | A59-B20-C2;                | A59-B20-C3; |
| A59-B20-C4; | A59-B20-C5; | A59-B20-C6; | A59-B20-C7;                | A59-B20-C8;                | A59-B20-C9; |
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| A60-B20-C7; | A60-B20-C8; | A60-B20-C9; | A61-B20-C1;                | A61-B20-C2;                | A61-B20-C3; |
| A61-B20-C4; | A61-B20-C5; | A61-B20-C6; | A61-B20-C7;                | A61-B20-C8;                | A61-B20-C9; |
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| A62-B20-C7; | A62-B20-C8; | A62-B20-C9; | A63-B20-C1;                | A63-B20-C2;                | A63-B20-C3; |
| A63-B20-C4; | A63-B20-C5; | A63-B20-C6; | A63-B20-C7;                | A63-B20-C8;                | A63-B20-C9; |
| A64-B20-C1; | A64-B20-C2; | A64-B20-C3; | A64-B20-C4;                | A64-B20-C5;                | A64-B20-C6; |
| A64-B20-C7; | A64-B20-C8; | A64-B20-C9; | A65-B20-C1;                | A65-B20-C2;                | A65-B20-C3; |
| A65-B20-C4; | A65-B20-C5; | A65-B20-C6; | A65-B20-C7;                | A65-B20-C8;                | A65-B20-C9; |
| A66-B20-C1; | A66-B20-C2; | A66-B20-C3; | A66-B20-C4;                | A66-B20-C5;                | A66-B20-C6; |
| A66-B20-C7; | A66-B20-C8; | A66-B20-C9; | A67-B20-C1;                | A67-B20-C2;                | A67-B20-C3; |
| A67-B20-C4; | A67-B20-C5; | A67-B20-C6; | A67-B20-C7;                | A67-B20-C8;                | A67-B20-C9; |
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| A68-B20-C7; | A68-B20-C8; | A68-B20-C9; | A69-B20-C1;                | A69-B20-C2;                | A69-B20-C3; |
| A69-B20-C4; | A69-B20-C5; | A69-B20-C6; | A69-B20-C7;                | A69-B20-C8;                | A69-B20-C9; |
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| A70-B20-C7; | A70-B20-C8; | A70-B20-C9; | A71-B20-C1;                | A71-B20-C2;                | A71-B20-C3; |
| A71-B20-C4; | A71-B20-C5; | A71-B20-C6; | A71-B20-C7;                | A71-B20-C8;                | A71-B20-C9; |
| A1-B21-C1;  | A1-B21-C2;  | A1-B21-C3;  | A1-B21-C4;                 | A1-B21-C5;                 | A1-B21-C6;  |
| A1-B21-C7;  | A1-B21-C8;  | A1-B21-C9;  | A2-B21-C1;                 | A2-B21-C2;                 | A2-B21-C3;  |
| A2-B21-C4;  | A2-B21-C5;  | A2-B21-C6;  | A2-B21-C7;                 | A2-B21-C8;                 | A2-B21-C9;  |
| A3-B21-C1;  | A3-B21-C2;  | A3-B21-C3;  | A3-B21-C4;                 | A3-B21-C5;                 | A3-B21-C6;  |
| A3-B21-C7;  | A3-B21-C8;  | A3-B21-C9;  | A4-B21-C1;                 | A4-B21-C2;                 | A4-B21-C3;  |
| A4-B21-C4;  | A4-B21-C5;  | A4-B21-C6;  | A4-B21-C7;                 | A4-B21-C8;                 | A4-B21-C9;  |
| A5-B21-C1;  | A5-B21-C2;  | A5-B21-C3;  | A5-B21-C4;                 | A5-B21-C5;                 | A5-B21-C6;  |
| A5-B21-C7;  | A5-B21-C8;  | A5-B21-C9;  | A6-B21-C1;                 | A6-B21-C2;                 | A6-B21-C3;  |
| A6-B21-C4;  | A6-B21-C5;  | A6-B21-C6;  | A6-B21-C7;                 | A6-B21-C8;                 | A6-B21-C9;  |
| A7-B21-C1;  | A7-B21-C2;  | A7-B21-C3;  | A7-B21-C4;                 | A7-B21-C5;                 | A7-B21-C6;  |
| A7-B21-C7;  | A7-B21-C8;  | A7-B21-C9;  | A8-B21-C1;                 | A8-B21-C2;                 | A8-B21-C3;  |
| A8-B21-C4;  | A8-B21-C5;  | A8-B21-C6;  | A8-B21-C7;                 | A8-B21-C8;                 | A8-B21-C9;  |
|             | •           |             |                            |                            |             |

| A9-B21-C1;  | A9-B21-C2;  | A9-B21-C3;  | A9-B21-C4;  | A9-B21-C5;  | A9-B21-C6;  |
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| A9-B21-C7;  | A9-B21-C8;  | A9-B21-C9;  | A10-B21-C1; | A10-B21-C2; | A10-B21-C3; |
| A10-B21-C4; | A10-B21-C5; | A10-B21-C6; | A10-B21-C7; | A10-B21-C8; | A10-B21-C9; |
| A11-B21-C1; | A11-B21-C2; | A11-B21-C3; | A11-B21-C4; | A11-B21-C5; | A11-B21-C6; |
| A11-B21-C7; | A11-B21-C8; | A11-B21-C9; | A12-B21-C1; | A12-B21-C2; | A12-B21-C3; |
| A12-B21-C4; | A12-B21-C5; | A12-B21-C6; | A12-B21-C7; | A12-B21-C8; | A12-B21-C9; |
| A13-B21-C1; | A13-B21-C2; | A13-B21-C3; | A13-B21-C4; | A13-B21-C5; | A13-B21-C6; |
| A13-B21-C7; | A13-B21-C8; | A13-B21-C9; | A14-B21-C1; | A14-B21-C2; | A14-B21-C3; |
| A14-B21-C4; | A14-B21-C5; | A14-B21-C6; | A14-B21-C7; | A14-B21-C8; | A14-B21-C9; |
| A15-B21-C1; | A15-B21-C2; | A15-B21-C3; | A15-B21-C4; | A15-B21-C5; | A15-B21-C6; |
| A15-B21-C7; | A15-B21-C8; | A15-B21-C9; | A16-B21-C1; | A16-B21-C2; | A16-B21-C3; |
| A16-B21-C4; | A16-B21-C5; | A16-B21-C6; | A16-B21-C7; | A16-B21-C8; | A16-B21-C9; |
| A17-B21-C1; | A17-B21-C2; | A17-B21-C3; | A17-B21-C4; | A17-B21-C5; | A17-B21-C6; |
| A17-B21-C7; | A17-B21-C8; | A17-B21-C9; | A18-B21-C1; | A18-B21-C2; | A18-B21-C3; |
| A18-B21-C4; | A18-B21-C5; | A18-B21-C6; | A18-B21-C7; | A18-B21-C8; | A18-B21-C9; |
| A19-B21-C1; | A19-B21-C2; | A19-B21-C3; | A19-B21-C4; | A19-B21-C5; | A19-B21-C6; |
| A19-B21-C7; | A19-B21-C8; | A19-B21-C9; | A20-B21-C1; | A20-B21-C2; | A20-B21-C3; |
| A20-B21-C4; | A20-B21-C5; | A20-B21-C6; | A20-B21-C7; | A20-B21-C8; | A20-B21-C9; |
| A21-B21-C1; | A21-B21-C2; | A21-B21-C3; | A21-B21-C4; | A21-B21-C5; | A21-B21-C6; |
| A21-B21-C7; | A21-B21-C8; | A21-B21-C9; | A22-B21-C1; | A22-B21-C2; | A22-B21-C3; |
| A22-B21-C4; | A22-B21-C5; | A22-B21-C6; | A22-B21-C7; | A22-B21-C8; | A22-B21-C9; |
| A23-B21-C1; | A23-B21-C2; | A23-B21-C3; | A23-B21-C4; | A23-B21-C5; | A23-B21-C6; |
| A23-B21-C7; | A23-B21-C8; | A23-B21-C9; | A24-B21-C1; | A24-B21-C2; | A24-B21-C3; |
| A24-B21-C4; | A24-B21-C5; | A24-B21-C6; | A24-B21-C7; | A24-B21-C8; | A24-B21-C9; |
| A25-B21-C1; | A25-B21-C2; | A25-B21-C3; | A25-B21-C4; | A25-B21-C5; | A25-B21-C6; |
| A25-B21-C7; | A25-B21-C8; | A25-B21-C9; | A26-B21-C1; | A26-B21-C2; | A26-B21-C3; |
| A26-B21-C4; | A26-B21-C5; | A26-B21-C6; | A26-B21-C7; | A26-B21-C8; | A26-B21-C9; |
| A27-B21-C1; | A27-B21-C2; | A27-B21-C3; | A27-B21-C4; | A27-B21-C5; | A27-B21-C6; |
| A27-B21-C7; | A27-B21-C8; | A27-B21-C9; | A28-B21-C1; | A28-B21-C2; | A28-B21-C3; |
| A28-B21-C4; | A28-B21-C5; | A28-B21-C6; | A28-B21-C7; | A28-B21-C8; | A28-B21-C9; |
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| A29-B21-C7; | A29-B21-C8; | A29-B21-C9; | A30-B21-C1; | A30-B21-C2; | A30-B21-C3; |
| A30-B21-C4; | A30-B21-C5; | A30-B21-C6; | A30-B21-C7; | A30-B21-C8; | A30-B21-C9; |
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| A31-B21-C7; | A31-B21-C8; | A31-B21-C9; | A32-B21-C1; | A32-B21-C2; | A32-B21-C3; |
| A32-B21-C4; | A32-B21-C5; | A32-B21-C6; | A32-B21-C7; | A32-B21-C8; | A32-B21-C9; |
| A33-B21-C1; | A33-B21-C2; | A33-B21-C3; | A33-B21-C4; | A33-B21-C5; | A33-B21-C6; |
| A33-B21-C7; | A33-B21-C8; | A33-B21-C9; | A34-B21-C1; | A34-B21-C2; | A34-B21-C3; |
| A34-B21-C4; | A34-B21-C5; | A34-B21-C6; | A34-B21-C7; | A34-B21-C8; | A34-B21-C9; |
| A35-B21-C1; | A35-B21-C2; | A35-B21-C3; | A35-B21-C4; | A35-B21-C5; | A35-B21-C6; |
| A35-B21-C7; | A35-B21-C8; | A35-B21-C9; | A36-B21-C1; | A36-B21-C2; | A36-B21-C3; |
| A36-B21-C4; | A36-B21-C5; | A36-B21-C6; | A36-B21-C7; | A36-B21-C8; | A36-B21-C9; |
| A37-B21-C1; | A37-B21-C2; | A37-B21-C3; | A37-B21-C4; | A37-B21-C5; | A37-B21-C6; |
| A37-B21-C7; | A37-B21-C8; | A37-B21-C9; | A38-B21-C1; | A38-B21-C2; | A38-B21-C3; |
| A38-B21-C4; | A38-B21-C5; | A38-B21-C6; | A38-B21-C7; | A38-B21-C8; | A38-B21-C9; |
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| A39-B21-C7; | A39-B21-C8; | A39-B21-C9; | A40-B21-C1; | A40-B21-C2; | A40-B21-C3; |
| A40-B21-C4; | A40-B21-C5; | A40-B21-C6; | A40-B21-C7; | A40-B21-C8; | A40-B21-C9; |
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| A41-B21-C7; | A41-B21-C8; | A41-B21-C9; | A42-B21-C1; | A42-B21-C2; | A42-B21-C3; |
| A42-B21-C4; | A42-B21-C5; | A42-B21-C6; | A42-B21-C7; | A42-B21-C8; | A42-B21-C9; |
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| A43-B21-C7; | A43-B21-C8; | A43-B21-C9; | A44-B21-C1; | A44-B21-C2; | A44-B21-C3; |
| A44-B21-C4; | A44-B21-C5; | A44-B21-C6; | A44-B21-C7; | A44-B21-C8; | A44-B21-C9; |
| A45-B21-C1; | A45-B21-C2; | A45-B21-C3; | A45-B21-C4; | A45-B21-C5; | A45-B21-C6; |

| A45-B21-C7; | A45-B21-C8; | A45-B21-C9; | A46-B21-C1; | A46-B21-C2; | A46-B21-C3; |
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| A46-B21-C4; | A46-B21-C5; | A46-B21-C6; | A46-B21-C7; | A46-B21-C8; | A46-B21-C9; |
| A47-B21-C1; | A47-B21-C2; | A47-B21-C3; | A47-B21-C4; | A47-B21-C5; | A47-B21-C6; |
| A47-B21-C7; | A47-B21-C8; | A47-B21-C9; | A48-B21-C1; | A48-B21-C2; | A48-B21-C3; |
| A48-B21-C4; | A48-B21-C5; | A48-B21-C6; | A48-B21-C7; | A48-B21-C8; | A48-B21-C9; |
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| A49-B21-C7; | A49-B21-C8; | A49-B21-C9; | A50-B21-C1; | A50-B21-C2; | A50-B21-C3; |
| A50-B21-C4; | A50-B21-C5; | A50-B21-C6; | A50-B21-C7; | A50-B21-C8; | A50-B21-C9; |
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| A51-B21-C7; | A51-B21-C8; | A51-B21-C9; | A52-B21-C1; | A52-B21-C2; | A52-B21-C3; |
| A52-B21-C4; | A52-B21-C5; | A52-B21-C6; | A52-B21-C7; | A52-B21-C8; | A52-B21-C9; |
| A53-B21-C1; | A53-B21-C2; | A53-B21-C3; | A53-B21-C4; | A53-B21-C5; | A53-B21-C6; |
| A53-B21-C7; | A53-B21-C8; | A53-B21-C9; | A54-B21-C1; | A54-B21-C2; | A54-B21-C3; |
| A54-B21-C4; | A54-B21-C5; | A54-B21-C6; | A54-B21-C7; | A54-B21-C8; | A54-B21-C9; |
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| A55-B21-C7; | A55-B21-C8; | A55-B21-C9; | A56-B21-C1; | A56-B21-C2; | A56-B21-C3; |
| A56-B21-C4; | A56-B21-C5; | A56-B21-C6; | A56-B21-C7; | A56-B21-C8; | A56-B21-C9; |
| A57-B21-C1; | A57-B21-C2; | A57-B21-C3; | A57-B21-C4; | A57-B21-C5; | A57-B21-C6; |
| A57-B21-C7; | A57-B21-C8; | A57-B21-C9; | A58-B21-C1; | A58-B21-C2; | A58-B21-C3; |
| A58-B21-C4; | A58-B21-C5; | A58-B21-C6; | A58-B21-C7; | A58-B21-C8; | A58-B21-C9; |
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| A69-B21-C7; | A69-B21-C8; | A69-B21-C9; | A70-B21-C1; | A70-B21-C2; | A70-B21-C3; |
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| A71-B21-C7; | A71-B21-C8; | A71-B21-C9; | A1-B22-C1;  | A1-B22-C2;  | A1-B22-C3;  |
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| A2-B22-C7;  | A2-B22-C8;  | A2-B22-C9;  | A3-B22-C1;  | A3-B22-C2;  | A3-B22-C3;  |
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| A4-B22-C1;  | A4-B22-C2;  | A4-B22-C3;  | A4-B22-C4;  | A4-B22-C5;  | A4-B22-C6;  |
| A4-B22-C7;  | A4-B22-C8;  | A4-B22-C9;  | A5-B22-C1;  | A5-B22-C2;  | A5-B22-C3;  |
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| A6-B22-C7;  | A6-B22-C8;  | A6-B22-C9;  | A7-B22-C1;  | A7-B22-C2;  | A7-B22-C3;  |
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| A8-B22-C7;  | A8-B22-C8;  | A8-B22-C9;  | A9-B22-C1;  | A9-B22-C2;  | A9-B22-C3;  |
| A9-B22-C4;  | A9-B22-C5;  | A9-B22-C6;  | A9-B22-C7;  | A9-B22-C8;  | A9-B22-C9;  |
| A10-B22-C1; | A10-B22-C2; | A10-B22-C3; | A10-B22-C4; | A10-B22-C5; | A10-B22-C6; |
| A10-B22-C7; | A10-B22-C8; | A10-B22-C9; | A11-B22-C1; | A11-B22-C2; | A11-B22-C3; |

| A11-B22-C4; | A11-B22-C5; | A11-B22-C6; | A11-B22-C7; | A11-B22-C8; | A11-B22-C9; |
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| A12-B22-C1; | A12-B22-C2; | A12-B22-C3; | A12-B22-C4; | A12-B22-C5; | A12-B22-C6; |
| A12-B22-C7; | A12-B22-C8; | A12-B22-C9; | A13-B22-C1; | A13-B22-C2; | A13-B22-C3; |
| A13-B22-C4; | A13-B22-C5; | A13-B22-C6; | A13-B22-C7; | A13-B22-C8; | A13-B22-C9; |
| A14-B22-C1; | A14-B22-C2; | A14-B22-C3; | A14-B22-C4; | A14-B22-C5; | A14-B22-C6; |
| A14-B22-C7; | A14-B22-C8; | A14-B22-C9; | A15-B22-C1; | A15-B22-C2; | A15-B22-C3; |
| A15-B22-C4; | A15-B22-C5; | A15-B22-C6; | A15-B22-C7; | A15-B22-C8; | A15-B22-C9; |
| A16-B22-C1; | A16-B22-C2; | A16-B22-C3; | A16-B22-C4; | A16-B22-C5; | A16-B22-C6; |
| A16-B22-C7; | A16-B22-C8; | A16-B22-C9; | A17-B22-C1; | A17-B22-C2; | A17-B22-C3; |
| A17-B22-C4; | A17-B22-C5; | A17-B22-C6; | A17-B22-C7; | A17-B22-C8; | A17-B22-C9; |
| A18-B22-C1; | A18-B22-C2; | A18-B22-C3; | A18-B22-C4; | A18-B22-C5; | A18-B22-C6; |
| A18-B22-C7; | A18-B22-C8; | A18-B22-C9; | A19-B22-C1; | A19-B22-C2; | A19-B22-C3; |
| A19-B22-C4; | A19-B22-C5; | A19-B22-C6; | A19-B22-C7; | A19-B22-C8; | A19-B22-C9; |
| A20-B22-C1; | A20-B22-C2; | A20-B22-C3; | A20-B22-C4; | A20-B22-C5; | A20-B22-C6; |
| A20-B22-C7; | A20-B22-C8; | A20-B22-C9; | A21-B22-C1; | A21-B22-C2; | A21-B22-C3; |
| A21-B22-C4; | A21-B22-C5; | A21-B22-C6; | A21-B22-C7; | A21-B22-C8; | A21-B22-C9; |
| A22-B22-C1; | A22-B22-C2; | A22-B22-C3; | A22-B22-C4; | A22-B22-C5; | A22-B22-C6; |
| A22-B22-C7; | A22-B22-C8; | A22-B22-C9; | A23-B22-C1; | A23-B22-C2; | A23-B22-C3; |
| A23-B22-C4; | A23-B22-C5; | A23-B22-C6; | A23-B22-C7; | A23-B22-C8; | A23-B22-C9; |
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| A24-B22-C7; | A24-B22-C8; | A24-B22-C9; | A25-B22-C1; | A25-B22-C2; | A25-B22-C3; |
| A25-B22-C4; | A25-B22-C5; | A25-B22-C6; | A25-B22-C7; | A25-B22-C8; | A25-B22-C9; |
| A26-B22-C1; | A26-B22-C2; | A26-B22-C3; | A26-B22-C4; | A26-B22-C5; | A26-B22-C6; |
| A26-B22-C7; | A26-B22-C8; | A26-B22-C9; | A27-B22-C1; | A27-B22-C2; | A27-B22-C3; |
| A27-B22-C4; | A27-B22-C5; | A27-B22-C6; | A27-B22-C7; | A27-B22-C8; | A27-B22-C9; |
| A28-B22-C1; | A28-B22-C2; | A28-B22-C3; | A28-B22-C4; | A28-B22-C5; | A28-B22-C6; |
| A28-B22-C7; | A28-B22-C8; | A28-B22-C9; | A29-B22-C1; | A29-B22-C2; | A29-B22-C3; |
| A29-B22-C4; | A29-B22-C5; | A29-B22-C6; | A29-B22-C7; | A29-B22-C8; | A29-B22-C9; |
| A30-B22-C1; | A30-B22-C2; | A30-B22-C3; | A30-B22-C4; | A30-B22-C5; | A30-B22-C6; |
| A30-B22-C7; | A30-B22-C8; | A30-B22-C9; | A31-B22-C1; | A31-B22-C2; | A31-B22-C3; |
| A31-B22-C4; | A31-B22-C5; | A31-B22-C6; | A31-B22-C7; | A31-B22-C8; | A31-B22-C9; |
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| A32-B22-C7; | A32-B22-C8; | A32-B22-C9; | A33-B22-C1; | A33-B22-C2; | A33-B22-C3; |
| A33-B22-C4; | A33-B22-C5; | A33-B22-C6; | A33-B22-C7; | A33-B22-C8; | A33-B22-C9; |
| A34-B22-C1; | A34-B22-C2; | A34-B22-C3; | A34-B22-C4; | A34-B22-C5; | A34-B22-C6; |
| A34-B22-C7; | A34-B22-C8; | A34-B22-C9; | A35-B22-C1; | A35-B22-C2; | A35-B22-C3; |
| A35-B22-C4; | A35-B22-C5; | A35-B22-C6; | A35-B22-C7; | A35-B22-C8; | A35-B22-C9; |
| A36-B22-C1; | A36-B22-C2; | A36-B22-C3; | A36-B22-C4; | A36-B22-C5; | A36-B22-C6; |
| A36-B22-C7; | A36-B22-C8; | A36-B22-C9; | A37-B22-C1; | A37-B22-C2; | A37-B22-C3; |
| A37-B22-C4; | A37-B22-C5; | A37-B22-C6; | A37-B22-C7; | A37-B22-C8; | A37-B22-C9; |
| A38-B22-C1; | A38-B22-C2; | A38-B22-C3; | A38-B22-C4; | A38-B22-C5; | A38-B22-C6; |
| A38-B22-C7; | A38-B22-C8; | A38-B22-C9; | A39-B22-C1; | A39-B22-C2; | A39-B22-C3; |
| A39-B22-C4; | A39-B22-C5; | A39-B22-C6; | A39-B22-C7; | A39-B22-C8; | A39-B22-C9; |
| A40-B22-C1; | A40-B22-C2; | A40-B22-C3; | A40-B22-C4; | A40-B22-C5; | A40-B22-C6; |
| A40-B22-C7; | A40-B22-C8; | A40-B22-C9; | A41-B22-C1; | A41-B22-C2; | A41-B22-C3; |
| A41-B22-C4; | A41-B22-C5; | A41-B22-C6; | A41-B22-C7; | A41-B22-C8; | A41-B22-C9; |
| A42-B22-C1; | A42-B22-C2; | A42-B22-C3; | A42-B22-C4; | A42-B22-C5; | A42-B22-C6; |
| A42-B22-C7; | A42-B22-C8; | A42-B22-C9; | A43-B22-C1; | A43-B22-C2; | A43-B22-C3; |
| A43-B22-C4; | A43-B22-C5; | A43-B22-C6; | A43-B22-C7; | A43-B22-C8; | A43-B22-C9; |
| A44-B22-C1; | A44-B22-C2; | A44-B22-C3; | A44-B22-C4; | A44-B22-C5; | A44-B22-C6; |
| A44-B22-C7; | A44-B22-C8; | A44-B22-C9; | A45-B22-C1; | A45-B22-C2; | A45-B22-C3; |
| A45-B22-C4; | A45-B22-C5; | A45-B22-C6; | A45-B22-C7; | A45-B22-C8; | A45-B22-C9; |
| A46-B22-C1; | A46-B22-C2; | A46-B22-C3; | A46-B22-C4; | A46-B22-C5; | A46-B22-C6; |
| A46-B22-C7; | A46-B22-C8; | A46-B22-C9; | A47-B22-C1; | A47-B22-C2; | A47-B22-C3; |
| A47-B22-C4; | A47-B22-C5; | A47-B22-C6; | A47-B22-C7; | A47-B22-C8; | A47-B22-C9; |

| A 40 DOC CL.             | A 40 DOO CO. | A 40 DOO CO.             | A 40 DOO C4. | 4.49 DOD CS.             | A 49 DOO CG. |
|--------------------------|--------------|--------------------------|--------------|--------------------------|--------------|
| A48-B22-C1;              | A48-B22-C2;  | A48-B22-C3;              | A48-B22-C4;  | A48-B22-C5;              | A48-B22-C6;  |
| A48-B22-C7;              | A48-B22-C8;  | A48-B22-C9;              | A49-B22-C1;  | A49-B22-C2;              | A49-B22-C3;  |
| A49-B22-C4;              | A49-B22-C5;  | A49-B22-C6;              | A49-B22-C7;  | A49-B22-C8;              | A49-B22-C9;  |
| A50-B22-C1;              | A50-B22-C2;  | A50-B22-C3;              | A50-B22-C4;  | A50-B22-C5;              | A50-B22-C6;  |
| A50-B22-C7;              | A50-B22-C8;  | A50-B22-C9;              | A51-B22-C1;  | A51-B22-C2;              | A51-B22-C3;  |
| A51-B22-C4;              | A51-B22-C5;  | A51-B22-C6;              | A51-B22-C7;  | A51-B22-C8;              | A51-B22-C9;  |
| A52-B22-C1;              | A52-B22-C2;  | A52-B22-C3;              | A52-B22-C4;  | A52-B22-C5;              | A52-B22-C6;  |
| A52-B22-C7;              | A52-B22-C8;  | A52-B22-C9;              | A53-B22-C1;  | A53-B22-C2;              | A53-B22-C3;  |
| A53-B22-C4;              | A53-B22-C5;  | A53-B22-C6;              | A53-B22-C7;  | A53-B22-C8;              | A53-B22-C9;  |
| A54-B22-C1;              | A54-B22-C2;  | A54-B22-C3;              | A54-B22-C4;  | A54-B22-C5;              | A54-B22-C6;  |
| A54-B22-C7;              | A54-B22-C8;  | A54-B22-C9;              | A55-B22-C1;  | A55-B22-C2;              | A55-B22-C3;  |
| A55-B22-C4;              | A55-B22-C5;  | A55-B22-C6;              | A55-B22-C7;  | A55-B22-C8;              | A55-B22-C9;  |
| A56-B22-C1;              | A56-B22-C2;  | A56-B22-C3;              | A56-B22-C4;  | A56-B22-C5;              | A56-B22-C6;  |
| A56-B22-C7;              | A56-B22-C8;  | A56-B22-C9;              | A57-B22-C1;  | A57-B22-C2;              | A57-B22-C3;  |
| A57-B22-C4;              | A57-B22-C5;  | A57-B22-C6;              | A57-B22-C7;  | A57-B22-C8;              | A57-B22-C9;  |
| A58-B22-C1;              | A58-B22-C2;  | A58-B22-C3;              | A58-B22-C4;  | A58-B22-C5;              | A58-B22-C6;  |
| A58-B22-C7;              | A58-B22-C8;  | A58-B22-C9;              | A59-B22-C1;  | A59-B22-C2;              | A59-B22-C3;  |
| A59-B22-C4;              | A59-B22-C5;  | A59-B22-C6;              | A59-B22-C7;  | A59-B22-C8;              | A59-B22-C9;  |
| A60-B22-C1;              | A60-B22-C2;  | A60-B22-C3;              | A60-B22-C4;  | A60-B22-C5;              | A60-B22-C6;  |
| A60-B22-C7;              | A60-B22-C2;  | A60-B22-C9;              | A61-B22-C1;  | A61-B22-C2;              | A61-B22-C3;  |
|                          |              |                          | A61-B22-C7;  |                          |              |
| A61-B22-C4;              | A61-B22-C5;  | A61-B22-C6;              |              | A61-B22-C8;              | A61-B22-C9;  |
| A62-B22-C1;              | A62-B22-C2;  | A62-B22-C3;              | A62-B22-C4;  | A62-B22-C5;              | A62-B22-C6;  |
| A62-B22-C7;              | A62-B22-C8;  | A62-B22-C9;              | A63-B22-C1;  | A63-B22-C2;              | A63-B22-C3;  |
| A63-B22-C4;              | A63-B22-C5;  | A63-B22-C6;              | A63-B22-C7;  | A63-B22-C8;              | A63-B22-C9;  |
| A64-B22-C1;              | A64-B22-C2;  | A64-B22-C3;              | A64-B22-C4;  | A64-B22-C5;              | A64-B22-C6;  |
| A64-B22-C7;              | A64-B22-C8;  | A64-B22-C9;              | A65-B22-C1;  | A65-B22-C2;              | A65-B22-C3;  |
| A65-B22-C4;              | A65-B22-C5;  | A65-B22-C6;              | A65-B22-C7;  | A65-B22-C8;              | A65-B22-C9;  |
| A66-B22-C1;              | A66-B22-C2;  | A66-B22-C3;              | A66-B22-C4;  | A66-B22-C5;              | A66-B22-C6;  |
| A66-B22-C7;              | A66-B22-C8;  | A66-B22-C9;              | A67-B22-C1;  | A67-B22-C2;              | A67-B22-C3;  |
| A67-B22-C4;              | A67-B22-C5;  | A67-B22-C6;              | A67-B22-C7;  | A67-B22-C8;              | A67-B22-C9;  |
| A68-B22-C1;              | A68-B22-C2;  | A68-B22-C3;              | A68-B22-C4;  | A68-B22-C5;              | A68-B22-C6;  |
| A68-B22-C7;              | A68-B22-C8;  | A68-B22-C9;              | A69-B22-C1;  | A69-B22-C2;              | A69-B22-C3;  |
| A69-B22-C4;              | A69-B22-C5;  | A69-B22-C6;              | A69-B22-C7;  | A69-B22-C8;              | A69-B22-C9;  |
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| A70-B22-C7;              | A70-B22-C8;  | A70-B22-C9;              | A71-B22-C1;  | A71-B22-C2;              | A71-B22-C3;  |
| A71-B22-C4;              | A71-B22-C5;  | A71-B22-C6;              | A71-B22-C7;  | A71-B22-C8;              | A71-B22-C9;  |
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| A1-B23-C7;               | A1-B23-C8;   | A1-B23-C9;               | A2-B23-C1;   | A2-B23-C2;               | A2-B23-C3;   |
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| A3-B23-C7;               | A3-B23-C8;   | A3-B23-C9;               | A4-B23-C1;   | A4-B23-C2;               | A4-B23-C3;   |
| A4-B23-C4;               | A4-B23-C5;   | A4-B23-C6;               | A4-B23-C7;   | A4-B23-C8;               | A4-B23-C9;   |
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| A5-B23-C7;               | A5-B23-C8;   | A5-B23-C9;               | A6-B23-C1;   | A6-B23-C2;               | A6-B23-C3;   |
| A6-B23-C4;               | A6-B23-C5;   | A6-B23-C6;               | A6-B23-C7;   | A6-B23-C8;               | A6-B23-C9;   |
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| A7-B23-C7;               | A7-B23-C8;   | A7-B23-C9;               | A8-B23-C1;   | A8-B23-C2;               | A8-B23-C3;   |
| A8-B23-C4;               | A8-B23-C5;   | A8-B23-C6;               | A8-B23-C7;   | A8-B23-C2;<br>A8-B23-C8; | A8-B23-C3;   |
| A9-B23-C4;               | A9-B23-C3;   |                          |              |                          |              |
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| •                        | A9-B23-C8;   | •                        | A10-B23-C1;  | A10-B23-C2;              | A10-B23-C3;  |
| A10-B23-C4;              | A10-B23-C5;  | A10-B23-C6;              | A10-B23-C7;  | A10-B23-C8;              | A10-B23-C9;  |
| A11-B23-C1;              | A11-B23-C2;  | A11-B23-C3;              | A11-B23-C4;  | A11-B23-C5;              | A11-B23-C6;  |
| A11-B23-C7;              | A11-B23-C8;  | A11-B23-C9;              | A12-B23-C1;  | A12-B23-C2;              | A12-B23-C3;  |
| A12-B23-C4;              | A12-B23-C5;  | A12-B23-C6;              | A12-B23-C7;  | A12-B23-C8;              | A12-B23-C9;  |
| A13-B23-C1;              | A13-B23-C2;  | A13-B23-C3;              | A13-B23-C4;  | A13-B23-C5;              | A13-B23-C6;  |
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| A13-B23-C7;                | A13-B23-C8;                | A13-B23-C9;                | A14-B23-C1;                | A14-B23-C2;                | A14-B23-C3;                |
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| A14-B23-C4;                | A14-B23-C5;                | A14-B23-C6;                | A14-B23-C7;                | A14-B23-C8;                | A14-B23-C9;                |
| A15-B23-C1;                | A15-B23-C2;                | A15-B23-C3;                | A15-B23-C4;                | A15-B23-C5;                | A15-B23-C6;                |
| A15-B23-C7;                | A15-B23-C8;                | A15-B23-C9;                | A16-B23-C1;                | A16-B23-C2;                | A16-B23-C3;                |
| A16-B23-C4;                | A16-B23-C5;                | A16-B23-C6;                | A16-B23-C7;                | A16-B23-C8;                | A16-B23-C9;                |
| A17-B23-C1;                | A17-B23-C2;                | A17-B23-C3;                | A17-B23-C4;                | A17-B23-C5;                | A17-B23-C6;                |
| A17-B23-C1;<br>A17-B23-C7; | A17-B23-C2;<br>A17-B23-C8; | A17-B23-C9;                | A17-B23-C4;<br>A18-B23-C1; | A18-B23-C2;                | A18-B23-C3;                |
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| A19-B23-C1;                | A19-B23-C2;<br>A19-B23-C8; | A19-B23-C3;<br>A19-B23-C9; | A19-B23-C4;                |                            | A20-B23-C3;                |
| A19-B23-C7;                |                            |                            | A20-B23-C1;                | A20-B23-C2;                |                            |
| A20-B23-C4;                | A20-B23-C5;                | A20-B23-C6;                | A20-B23-C7;                | A20-B23-C8;                | A20-B23-C9;                |
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| A21-B23-C7;                | A21-B23-C8;                | A21-B23-C9;                | A22-B23-C1;                | A22-B23-C2;                | A22-B23-C3;                |
| A22-B23-C4;                | A22-B23-C5;                | A22-B23-C6;                | A22-B23-C7;                | A22-B23-C8;                | A22-B23-C9;                |
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| A24-B23-C4;                | A24-B23-C5;                | A24-B23-C6;                | A24-B23-C7;                | A24-B23-C8;                | A24-B23-C9;                |
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| A25-B23-C7;                | A25-B23-C8;                | A25-B23-C9;                | A26-B23-C1;                | A26-B23-C2;                | A26-B23-C3;                |
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| A29-B23-C1;                | A29-B23-C2;                | A29-B23-C3;                | A29-B23-C4;                | A29-B23-C5;                | A29-B23-C6;                |
| A29-B23-C7;                | A29-B23-C8;                | A29-B23-C9;                | A30-B23-C1;                | A30-B23-C2;                | A30-B23-C3;                |
| A30-B23-C4;                | A30-B23-C5;                | A30-B23-C6;                | A30-B23-C7;                | A30-B23-C8;                | A30-B23-C9;                |
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| A37-B23-C7;                | A37-B23-C8;                | A37-B23-C9;                | A38-B23-C1;                | A38-B23-C2;                | A38-B23-C3;                |
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| A39-B23-C7;                | A39-B23-C8;                | A39-B23-C9;                | A40-B23-C1;                | A40-B23-C2;                | A40-B23-C3;                |
| A40-B23-C4;                | A40-B23-C5;                | A40-B23-C6;                | A40-B23-C7;                | A40-B23-C8;                | A40-B23-C9;                |
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| A41-B23-C7;                | A41-B23-C8;                | A41-B23-C9;                | A42-B23-C1;                | A42-B23-C2;                | A42-B23-C3;                |
| A42-B23-C4;                | A42-B23-C5;                | A42-B23-C6;                | A42-B23-C7;                | A42-B23-C8;                | A42-B23-C9;                |
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| A43-B23-C7;                | A43-B23-C8;                | A43-B23-C9;                | A44-B23-C1;                | A44-B23-C2;                | A44-B23-C3;                |
| A44-B23-C4;                | A44-B23-C5;                | A44-B23-C6;                | A44-B23-C7;                | A44-B23-C8;                | A44-B23-C9;                |
| A45-B23-C1;                | A45-B23-C2;                | A45-B23-C3;                | A45-B23-C4;                | A45-B23-C5;                | A45-B23-C6;                |
| A45-B23-C7;                | A45-B23-C8;                | A45-B23-C9;                | A46-B23-C1;                | A46-B23-C2;                | A46-B23-C3;                |
| A46-B23-C4;                | A46-B23-C5;                | A46-B23-C6;                | A46-B23-C7;                | A46-B23-C2;<br>A46-B23-C8; | A46-B23-C9;                |
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| A47-B23-C7;<br>A48-B23-C4; | A47-B23-C6;<br>A48-B23-C5; | A47-B23-C9;<br>A48-B23-C6; | A48-B23-C7;                | A48-B23-C2;<br>A48-B23-C8; | A48-B23-C9;                |
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| A51-B23-C7;                | A51-B23-C8;                | A51-B23-C9;                | A52-B23-C1;                | A52-B23-C2;                | A52-B23-C3;                |
| A52-B23-C4;                | A52-B23-C5;                | A52-B23-C6;                | A52-B23-C7;                | A52-B23-C8;                | A52-B23-C9;                |
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| A53-B23-C7;                | A53-B23-C8;                | A53-B23-C9;                | A54-B23-C1;                | A54-B23-C2;                | A54-B23-C3;                |
| A54-B23-C4;                | A54-B23-C5;                | A54-B23-C6;                | A54-B23-C7;                | A54-B23-C8;                | A54-B23-C9;                |
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| A55-B23-C7;                | A55-B23-C8;                | A55-B23-C9;                | A56-B23-C1;                | A56-B23-C2;                | A56-B23-C3;                |
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| A57-B23-C7;                | A57-B23-C8;                | A57-B23-C9;                | A58-B23-C1;                | A58-B23-C2;                | A58-B23-C3;                |
| A58-B23-C4;                | A58-B23-C5;                | A58-B23-C6;                | A58-B23-C7;                | A58-B23-C8;                | A58-B23-C9;                |
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| A59-B23-C7;                | A59-B23-C8;                | A59-B23-C9;                | A60-B23-C1;                | A60-B23-C2;                | A60-B23-C3;                |
| A60-B23-C4;                | A60-B23-C5;                | A60-B23-C6;                | A60-B23-C7;                | A60-B23-C8;                | A60-B23-C9;                |
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| A61-B23-C7;                | A61-B23-C8;                | A61-B23-C9;                | A62-B23-C1;                | A62-B23-C2;                | A62-B23-C3;                |
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| A64-B23-C4;                | A64-B23-C5;                | A64-B23-C6;                | A64-B23-C7;                | A64-B23-C8;                | A64-B23-C9;                |
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| A69-B23-C7;                | A69-B23-C8;                | A69-B23-C9;                | A70-B23-C1;                | A70-B23-C2;                | A70-B23-C3;                |
| A70-B23-C4;                | A70-B23-C5;                | A70-B23-C6;                | A70-B23-C7;                | A70-B23-C8;                | A70-B23-C9;                |
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| A2-B24-C7;                 | A2-B24-C8;                 | A2-B24-C9;                 | A3-B24-C1;                 | A3-B24-C2;                 | A3-B24-C3;                 |
| A3-B24-C4;                 | A3-B24-C5;                 | A3-B24-C6;                 | A3-B24-C7;                 | A3-B24-C8;                 | A3-B24-C9;                 |
| A4-B24-C1;                 | A4-B24-C2;                 | A4-B24-C3;                 | A4-B24-C4;                 | A4-B24-C5;                 | A4-B24-C6;                 |
| A4-B24-C7;                 | A4-B24-C8;                 | A4-B24-C9;                 | A5-B24-C1;                 | A5-B24-C2;                 | A5-B24-C3;                 |
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| A14-B24-C1;<br>A14-B24-C7; | A14-B24-C2;<br>A14-B24-C8; | A14-B24-C3;<br>A14-B24-C9; | A14-B24-C4;<br>A15-B24-C1; | A14-B24-C3;<br>A15-B24-C2; | A14-B24-C0,<br>A15-B24-C3; |
| A15-B24-C4;                | A14-B24-C6;<br>A15-B24-C5; | A14-B24-C9;<br>A15-B24-C6; | A15-B24-C1;<br>A15-B24-C7; | A15-B24-C2;<br>A15-B24-C8; | A15-B24-C3;                |
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| A17-B24-C4;                | A17-B24-C5; | A17-B24-C6;  | A17-B24-C7;  | A17-B24-C8; | A17-B24-C9;                |
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| A18-B24-C7;                | A18-B24-C8; | A18-B24-C9;  | A19-B24-C1;  | A19-B24-C2; | A19-B24-C3;                |
| A19-B24-C4;                | A19-B24-C5; | A19-B24-C6;  | A19-B24-C7;  | A19-B24-C8; | A19-B24-C9;                |
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| A20-B24-C7;                | A20-B24-C8; | A20-B24-C9;  | A21-B24-C1;  | A21-B24-C2; | A21-B24-C3;                |
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| A44-B24-C7;<br>A45-B24-C4; | A44-B24-C8; | •            | A45-B24-C1;  | A45-B24-C2; | •                          |
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| A69-B24-C4; | A69-B24-C5; | A69-B24-C6; | A69-B24-C7; | A69-B24-C8; | A69-B24-C9; |
| A70-B24-C1; | A70-B24-C2; | A70-B24-C3; | A70-B24-C4; | A70-B24-C5; | A70-B24-C6; |
| A70-B24-C7; | A70-B24-C8; | A70-B24-C9; | A71-B24-C1; | A71-B24-C2; | A71-B24-C3; |
| A71-B24-C4; | A71-B24-C5; | A71-B24-C6; | A71-B24-C7; | A71-B24-C8; | A71-B24-C9; |
| A1-B25-C1;  | A1-B25-C2;  | A1-B25-C3;  | A1-B25-C4;  | A1-B25-C5;  | A1-B25-C6;  |
| A1-B25-C7;  | A1-B25-C8;  | A1-B25-C9;  | A2-B25-C1;  | A2-B25-C2;  | A2-B25-C3;  |
| A2-B25-C4;  | A2-B25-C5;  | A2-B25-C6;  | A2-B25-C7;  | A2-B25-C8;  | A2-B25-C9;  |
| A3-B25-C1;  | A3-B25-C2;  | A3-B25-C3;  | A3-B25-C4;  | A3-B25-C5;  | A3-B25-C6;  |
| A3-B25-C7;  | A3-B25-C8;  | A3-B25-C9;  | A4-B25-C1;  | A4-B25-C2;  | A4-B25-C3;  |
| A4-B25-C4;  | A4-B25-C5;  | A4-B25-C6;  | A4-B25-C7;  | A4-B25-C8;  | A4-B25-C9;  |
| A5-B25-C1;  | A5-B25-C2;  | A5-B25-C3;  | A5-B25-C4;  | A5-B25-C5;  | A5-B25-C6;  |
| A5-B25-C7;  | A5-B25-C8;  | A5-B25-C9;  | A6-B25-C1;  | A6-B25-C2;  | A6-B25-C3;  |
| A6-B25-C4;  | A6-B25-C5;  | A6-B25-C6;  | A6-B25-C7;  | A6-B25-C8;  | A6-B25-C9;  |
| A7-B25-C1;  | A7-B25-C2;  | A7-B25-C3;  | A7-B25-C4;  | A7-B25-C5;  | A7-B25-C6;  |
| A7-B25-C7;  | A7-B25-C8;  | A7-B25-C9;  | A8-B25-C1;  | A8-B25-C2;  | A8-B25-C3;  |
| A8-B25-C4;  | A8-B25-C5;  | A8-B25-C6;  | A8-B25-C7;  | A8-B25-C8;  | A8-B25-C9;  |
| A9-B25-C1;  | A9-B25-C2;  | A9-B25-C3;  | A9-B25-C4;  | A9-B25-C5;  | A9-B25-C6;  |
| A9-B25-C7;  | A9-B25-C8;  | A9-B25-C9;  | A10-B25-C1; | A10-B25-C2; | A10-B25-C3; |
| A10-B25-C4; | A10-B25-C5; | A10-B25-C6; | A10-B25-C7; | A10-B25-C8; | A10-B25-C9; |
| A11-B25-C1; | A11-B25-C2  | A11-B25-C3; | A11-B25-C4; | A11-B25-C5; | A11-B25-C6; |
| A11-B25-C7; | A11-B25-C8; | A11-B25-C9; | A12-B25-C1; | A12-B25-C2; | A12-B25-C3; |
| A12-B25-C4; | A12-B25-C5; | A12-B25-C6; | A12-B25-C7; | A12-B25-C8; | A12-B25-C9; |
| A13-B25-C1; | A13-B25-C2; | A13-B25-C3; | A13-B25-C4; | A13-B25-C5; | A13-B25-C6; |
| A13-B25-C7; | A13-B25-C8; | A13-B25-C9; | A14-B25-C1; | A14-B25-C2; | A14-B25-C3; |
| A14-B25-C4; | A14-B25-C5; | A14-B25-C6; | A14-B25-C7; | A14-B25-C8; | A14-B25-C9; |
| A15-B25-C1; | A15-B25-C2; | A15-B25-C3; | A15-B25-C4; | A15-B25-C5; | A15-B25-C6; |
| A15-B25-C7; | A15-B25-C8; | A15-B25-C9; | A16-B25-C1; | A16-B25-C2; | A16-B25-C3; |
| A16-B25-C4; | A16-B25-C5; | A16-B25-C6; | A16-B25-C7; | A16-B25-C8; | A16-B25-C9; |
| A17-B25-C1; | A17-B25-C2; | A17-B25-C3; | A17-B25-C4; | A17-B25-C5; | A17-B25-C6; |
| A17-B25-C7; | A17-B25-C8; | A17-B25-C9; | A18-B25-C1; | A18-B25-C2; | A18-B25-C3; |

| A18-B25-C4; | A18-B25-C5; | A18-B25-C6; | A18-B25-C7; | A18-B25-C8; | A18-B25-C9; |
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| A19-B25-C1; | A19-B25-C2; | A19-B25-C3; | A19-B25-C4; | A19-B25-C5; | A19-B25-C6; |
| A19-B25-C7; | A19-B25-C8; | A19-B25-C9; | A20-B25-C1; | A20-B25-C2; | A20-B25-C3; |
| A20-B25-C4; | A20-B25-C5; | A20-B25-C6; | A20-B25-C7; | A20-B25-C8; | A20-B25-C9; |
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| A21-B25-C7; | A21-B25-C8; | A21-B25-C9; | A22-B25-C1; | A22-B25-C2; | A22-B25-C3; |
| A22-B25-C4; | A22-B25-C5; | A22-B25-C6; | A22-B25-C7; | A22-B25-C8; | A22-B25-C9; |
| A23-B25-C1; | A23-B25-C2; | A23-B25-C3; | A23-B25-C4; | A23-B25-C5; | A23-B25-C6; |
| A23-B25-C7; | A23-B25-C8; | A23-B25-C9; | A24-B25-C1; | A24-B25-C2; | A24-B25-C3; |
| A24-B25-C4; | A24-B25-C5; | A24-B25-C6; | A24-B25-C7; | A24-B25-C8; | A24-B25-C9; |
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| A25-B25-C7; | A25-B25-C8; | A25-B25-C9; | A26-B25-C1; | A26-B25-C2; | A26-B25-C3; |
| A26-B25-C4; | A26-B25-C5; | A26-B25-C6; | A26-B25-C7; | A26-B25-C8; | A26-B25-C9; |
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| A27-B25-C7; | A27-B25-C8; | A27-B25-C9; | A28-B25-C1; | A28-B25-C2; | A28-B25-C3; |
| A28-B25-C4; | A28-B25-C5; | A28-B25-C6; | A28-B25-C7; | A28-B25-C8; | A28-B25-C9; |
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| A29-B25-C7; | A29-B25-C8; | A29-B25-C9; | A30-B25-C1; | A30-B25-C2; | A30-B25-C3; |
| A30-B25-C4; | A30-B25-C5; | A30-B25-C6; | A30-B25-C7; | A30-B25-C8; | A30-B25-C9; |
| A31-B25-C1; | A31-B25-C2; | A31-B25-C3; | A31-B25-C4; | A31-B25-C5; | A31-B25-C6; |
| A31-B25-C7; | A31-B25-C8; | A31-B25-C9; | A32-B25-C1; | A32-B25-C2; | A32-B25-C3; |
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| A33-B25-C1; | A33-B25-C2; | A33-B25-C3; | A33-B25-C4; | A33-B25-C5; | A33-B25-C6; |
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| A35-B25-C7; | A35-B25-C8; | A35-B25-C9; | A36-B25-C1; | A36-B25-C2; | A36-B25-C3; |
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| A37-B25-C7; | A37-B25-C8; | A37-B25-C9; | A38-B25-C1; | A38-B25-C2; | A38-B25-C3; |
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| A39-B25-C7; | A39-B25-C8; | A39-B25-C9; | A40-B25-C1; | A40-B25-C2; | A40-B25-C3; |
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| A41-B25-C7; | A41-B25-C8; | A41-B25-C9; | A42-B25-C1; | A42-B25-C2; | A42-B25-C3; |
| A42-B25-C4; | A42-B25-C5; | A42-B25-C6; | A42-B25-C7; | A42-B25-C8; | A42-B25-C9; |
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| A43-B25-C7; | A43-B25-C8; | A43-B25-C9; | A44-B25-C1; | A44-B25-C2; | A44-B25-C3; |
| A44-B25-C4; | A44-B25-C5; | A44-B25-C6; | A44-B25-C7; | A44-B25-C8; | A44-B25-C9; |
| A45-B25-C1; | A45-B25-C2; | A45-B25-C3; | A45-B25-C4; | A45-B25-C5; | A45-B25-C6; |
| A45-B25-C7; | A45-B25-C8; | A45-B25-C9; | A46-B25-C1; | A46-B25-C2; | A46-B25-C3; |
| A46-B25-C4; | A46-B25-C5; | A46-B25-C6; | A46-B25-C7; | A46-B25-C8; | A46-B25-C9; |
| A47-B25-C1; | A47-B25-C2; | A47-B25-C3; | A47-B25-C4; | A47-B25-C5; | A47-B25-C6; |
| A47-B25-C7; | A47-B25-C8; | A47-B25-C9; | A48-B25-C1; | A48-B25-C2; | A48-B25-C3; |
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| A49-B25-C1; | A49-B25-C2; | A49-B25-C3; | A49-B25-C4; | A49-B25-C5; | A49-B25-C6; |
| A49-B25-C7; | A49-B25-C8; | A49-B25-C9; | A50-B25-C1; | A50-B25-C2; | A50-B25-C3; |
| A50-B25-C4; | A50-B25-C5; | A50-B25-C6; | A50-B25-C7; | A50-B25-C8; | A50-B25-C9; |
| A51-B25-C1; | A51-B25-C2; | A51-B25-C3; | A51-B25-C4; | A51-B25-C5; | A51-B25-C6; |
| A51-B25-C7; | A51-B25-C8; | A51-B25-C9; | A52-B25-C1; | A52-B25-C2; | A52-B25-C3; |
| A52-B25-C4; | A52-B25-C5; | A52-B25-C6; | A52-B25-C7; | A52-B25-C8; | A52-B25-C9; |
| A53-B25-C1; | A53-B25-C2; | A53-B25-C3; | A53-B25-C4; | A53-B25-C5; | A53-B25-C6; |
| A53-B25-C7; | A53-B25-C8; | A53-B25-C9; | A54-B25-C1; | A54-B25-C2; | A54-B25-C3; |
| A54-B25-C4; | A54-B25-C5; | A54-B25-C6; | A54-B25-C7; | A54-B25-C8; | A54-B25-C9; |
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| A55-B25-C1; | A55-B25-C2;                | A55-B25-C3; | A55-B25-C4; | A55-B25-C5; | A55-B25-C6; |
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| A55-B25-C7; | A55-B25-C8;                | A55-B25-C9; | A56-B25-C1; | A56-B25-C2; | A56-B25-C3; |
| A56-B25-C4; | A56-B25-C5;                | A56-B25-C6; | A56-B25-C7; | A56-B25-C8; | A56-B25-C9; |
| A57-B25-C1; | A57-B25-C2;                | A57-B25-C3; | A57-B25-C4; | A57-B25-C5; | A57-B25-C6; |
| A57-B25-C7; | A57-B25-C8;                | A57-B25-C9; | A58-B25-C1; | A58-B25-C2; | A58-B25-C3; |
| A58-B25-C4; | A58-B25-C5;                | A58-B25-C6; | A58-B25-C7; | A58-B25-C8; | A58-B25-C9; |
| A59-B25-C1; | A59-B25-C2;                | A59-B25-C3; | A59-B25-C4; | A59-B25-C5; | A59-B25-C6; |
| A59-B25-C7; | A59-B25-C8;                | A59-B25-C9; | A60-B25-C1; | A60-B25-C2; | A60-B25-C3; |
| A60-B25-C4; | A60-B25-C5;                | A60-B25-C6; | A60-B25-C7; | A60-B25-C8; | A60-B25-C9; |
| A61-B25-C1; | A61-B25-C2;                | A61-B25-C3; | A61-B25-C4; | A61-B25-C5; | A61-B25-C6; |
| A61-B25-C7; | A61-B25-C8;                | A61-B25-C9; | A62-B25-C1; | A62-B25-C2; | A62-B25-C3; |
| A62-B25-C4; | A62-B25-C5;                | A62-B25-C6; | A62-B25-C7; | A62-B25-C8; | A62-B25-C9; |
| A63-B25-C1; | A63-B25-C2;                | A63-B25-C3; | A63-B25-C4; | A63-B25-C5; | A63-B25-C6; |
| A63-B25-C7; | A63-B25-C8;                | A63-B25-C9; | A64-B25-C1; | A64-B25-C2; | A64-B25-C3; |
| A64-B25-C4; | A64-B25-C5;                | A64-B25-C6; | A64-B25-C7; | A64-B25-C8; | A64-B25-C9; |
| A65-B25-C1; | A65-B25-C2;                | A65-B25-C3; | A65-B25-C4; | A65-B25-C5; | A65-B25-C6; |
| A65-B25-C7; | A65-B25-C8;                | A65-B25-C9; | A66-B25-C1; | A66-B25-C2; | A66-B25-C3; |
| A66-B25-C4; | A66-B25-C5;                | A66-B25-C6; | A66-B25-C7; | A66-B25-C8; | A66-B25-C9; |
| A67-B25-C1; | A67-B25-C2;                | A67-B25-C3; | A67-B25-C4; | A67-B25-C5; | A67-B25-C6; |
| A67-B25-C1; | A67-B25-C2;<br>A67-B25-C8; | A67-B25-C9; | A68-B25-C1; | A68-B25-C2; | A68-B25-C3; |
| A68-B25-C4; | A68-B25-C5;                | A68-B25-C6; | A68-B25-C7; | A68-B25-C2; | A68-B25-C9; |
| A69-B25-C1; | A69-B25-C3;                | A69-B25-C3; | A69-B25-C4; | A69-B25-C5; | A69-B25-C6; |
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| A69-B25-C7; | A69-B25-C8;                | A69-B25-C9; | A70-B25-C1; | A70-B25-C2; | A70-B25-C3; |
| A70-B25-C4; | A70-B25-C5;                | A70-B25-C6; | A70-B25-C7; | A70-B25-C8; | A70-B25-C9; |
| A71-B25-C1; | A71-B25-C2;                | A71-B25-C3; | A71-B25-C4; | A71-B25-C5; | A71-B25-C6; |
| A71-B25-C7; | A71-B25-C8;                | A71-B25-C9; | A1-B26-C1;  | A1-B26-C2;  | A1-B26-C3;  |
| A1-B26-C4;  | A1-B26-C5;                 | A1-B26-C6;  | A1-B26-C7;  | A1-B26-C8;  | A1-B26-C9;  |
| A2-B26-C1;  | A2-B26-C2;                 | A2-B26-C3;  | A2-B26-C4;  | A2-B26-C5;  | A2-B26-C6;  |
| A2-B26-C7;  | A2-B26-C8;                 | A2-B26-C9;  | A3-B26-C1;  | A3-B26-C2;  | A3-B26-C3;  |
| A3-B26-C4;  | A3-B26-C5;                 | A3-B26-C6;  | A3-B26-C7;  | A3-B26-C8;  | A3-B26-C9;  |
| A4-B26-C1;  | A4-B26-C2;                 | A4-B26-C3;  | A4-B26-C4;  | A4-B26-C5;  | A4-B26-C6;  |
| A4-B26-C7;  | A4-B26-C8;                 | A4-B26-C9;  | A5-B26-C1;  | A5-B26-C2;  | A5-B26-C3;  |
| A5-B26-C4;  | A5-B26-C5;                 | A5-B26-C6;  | A5-B26-C7;  | A5-B26-C8;  | A5-B26-C9;  |
| A6-B26-C1;  | A6-B26-C2;                 | A6-B26-C3;  | A6-B26-C4;  | A6-B26-C5;  | A6-B26-C6;  |
| A6-B26-C7;  | A6-B26-C8;                 | A6-B26-C9;  | A7-B26-C1;  | A7-B26-C2;  | A7-B26-C3;  |
| A7-B26-C4;  | A7-B26-C5;                 | A7-B26-C6;  | A7-B26-C7;  | A7-B26-C8;  | A7-B26-C9;  |
| A8-B26-C1;  | A8-B26-C2;                 | A8-B26-C3;  | A8-B26-C4;  | A8-B26-C5;  | A8-B26-C6;  |
| A8-B26-C7;  | A8-B26-C8;                 | A8-B26-C9;  | A9-B26-C1;  | A9-B26-C2;  | A9-B26-C3;  |
| A9-B26-C4;  | A9-B26-C5;                 | A9-B26-C6;  | A9-B26-C7;  | A9-B26-C8;  | A9-B26-C9;  |
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| A12-B26-C7; | A12-B26-C8;                | A12-B26-C9; | A13-B26-C1; | A13-B26-C2; | A13-B26-C3; |
| A13-B26-C4; | A13-B26-C5;                | A13-B26-C6; | A13-B26-C7; | A13-B26-C8; | A13-B26-C9; |
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| A14-B26-C7; | A14-B26-C8;                | A14-B26-C9; | A15-B26-C1; | A15-B26-C2; | A15-B26-C3; |
| A15-B26-C4; | A15-B26-C5;                | A15-B26-C6; | A15-B26-C7; | A15-B26-C8; | A15-B26-C9; |
| A16-B26-C1; | A16-B26-C2;                | A16-B26-C3; | A16-B26-C4; | A16-B26-C5; | A16-B26-C6; |
| A16-B26-C7; | A16-B26-C8;                | A16-B26-C9; | A17-B26-C1; | A17-B26-C2; | A17-B26-C3; |
| A17-B26-C4; | A17-B26-C5;                | A17-B26-C6; | A17-B26-C7; | A17-B26-C8; | A17-B26-C9; |
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| A18-B26-C7; | A18-B26-C8;                | A18-B26-C9; | A19-B26-C1; | A19-B26-C2; | A19-B26-C3; |
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| A22-B26-C7; | A22-B26-C8; | A22-B26-C9; | A23-B26-C1; | A23-B26-C2; | A23-B26-C3; |
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| A30-B26-C7; | A30-B26-C8; | A30-B26-C9; | A31-B26-C1; | A31-B26-C2; | A31-B26-C3; |
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| A56-B26-C7; | A56-B26-C8; | A56-B26-C9; | A57-B26-C1; | A57-B26-C2; | A57-B26-C3; |
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| A64-B26-C7; | A64-B26-C8; | A64-B26-C9; | A65-B26-C1; | A65-B26-C2; | A65-B26-C3; |
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| A66-B26-C7; | A66-B26-C8; | A66-B26-C9; | A67-B26-C1; | A67-B26-C2; | A67-B26-C3; |
| A67-B26-C4; | A67-B26-C5; | A67-B26-C6; | A67-B26-C7; | A67-B26-C8; | A67-B26-C9; |
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| A68-B26-C7; | A68-B26-C8; | A68-B26-C9; | A69-B26-C1; | A69-B26-C2; | A69-B26-C3; |
| A69-B26-C4; | A69-B26-C5; | A69-B26-C6; | A69-B26-C7; | A69-B26-C8; | A69-B26-C9; |
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| A70-B26-C7; | A70-B26-C8; | A70-B26-C9; | A71-B26-C1; | A71-B26-C2; | A71-B26-C3; |
| A71-B26-C4; | A71-B26-C5; | A71-B26-C6; | A71-B26-C7; | A71-B26-C8; | A71-B26-C9; |
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| A1-B27-C7;  | A1-B27-C8;  | A1-B27-C9;  | A2-B27-C1;  | A2-B27-C2;  | A2-B27-C3;  |
| A2-B27-C4;  | A2-B27-C5;  | A2-B27-C6;  | A2-B27-C7;  | A2-B27-C8;  | A2-B27-C9;  |
| A3-B27-C1;  | A3-B27-C2;  | A3-B27-C3;  | A3-B27-C4;  | A3-B27-C5;  | A3-B27-C6;  |
| A3-B27-C7;  | A3-B27-C8;  | A3-B27-C9;  | A4-B27-C1;  | A4-B27-C2;  | A4-B27-C3;  |
| A4-B27-C4;  | A4-B27-C5;  | A4-B27-C6;  | A4-B27-C7;  | A4-B27-C8;  | A4-B27-C9;  |
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| A5-B27-C7;  | A5-B27-C8;  | A5-B27-C9;  | A6-B27-C1;  | A6-B27-C2;  | A6-B27-C3;  |
| A6-B27-C4;  | A6-B27-C5;  | A6-B27-C6;  | A6-B27-C7;  | A6-B27-C8;  | A6-B27-C9;  |
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| A7-B27-C7;  | A7-B27-C8;  | A7-B27-C9;  | A8-B27-C1;  | A8-B27-C2;  | A8-B27-C3;  |
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| A9-B27-C7;  | A9-B27-C8;  | A9-B27-C9;  | A10-B27-C1; | A10-B27-C2; | A10-B27-C3; |
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| A13-B27-C7; | A13-B27-C8; | A13-B27-C9; | A14-B27-C1; | A14-B27-C2; | A14-B27-C3; |
| A14-B27-C4; | A14-B27-C5; | A14-B27-C6; | A14-B27-C7; | A14-B27-C8; | A14-B27-C9; |
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| A15-B27-C7; | A15-B27-C8; | A15-B27-C9; | A16-B27-C1; | A16-B27-C2; | A16-B27-C3; |
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| A17-B27-C7; | A17-B27-C8; | A17-B27-C9; | A18-B27-C1; | A18-B27-C2; | A18-B27-C3; |
| A18-B27-C4; | A18-B27-C5; | A18-B27-C6; | A18-B27-C7; | A18-B27-C8; | A18-B27-C9; |
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| A19-B27-C7; | A19-B27-C8; | A19-B27-C9; | A20-B27-C1; | A20-B27-C2; | A20-B27-C3; |
| A20-B27-C4; | A20-B27-C5; | A20-B27-C6; | A20-B27-C7; | A20-B27-C8; | A20-B27-C9; |
| A21-B27-C1; | A21-B27-C2; | A21-B27-C3; | A21-B27-C4; | A21-B27-C5; | A21-B27-C6; |
| A21-B27-C7; | A21-B27-C8; | A21-B27-C9; | A22-B27-C1; | A22-B27-C2; | A22-B27-C3; |
| A22-B27-C4; | A22-B27-C5; | A22-B27-C6; | A22-B27-C7; | A22-B27-C8; | A22-B27-C9; |
|             | ,           |             | ,           |             | ,,          |

| A23-B27-C1;                | A22 D27 C2.                | A23-B27-C3; | A22 P27 C4:                | A23-B27-C5;                | A23-B27-C6; |
|----------------------------|----------------------------|-------------|----------------------------|----------------------------|-------------|
|                            | A23-B27-C2;                |             | A23-B27-C4;                |                            |             |
| A23-B27-C7;                | A23-B27-C8;                | A23-B27-C9; | A24-B27-C1;                | A24-B27-C2;                | A24-B27-C3; |
| A24-B27-C4;                | A24-B27-C5;                | A24-B27-C6; | A24-B27-C7;                | A24-B27-C8;                | A24-B27-C9; |
| A25-B27-C1;                | A25-B27-C2;                | A25-B27-C3; | A25-B27-C4;                | A25-B27-C5;                | A25-B27-C6; |
| A25-B27-C7;                | A25-B27-C8;                | A25-B27-C9; | A26-B27-C1;                | A26-B27-C2;                | A26-B27-C3; |
| A26-B27-C4;                | A26-B27-C5;                | A26-B27-C6; | A26-B27-C7;                | A26-B27-C8;                | A26-B27-C9; |
| A27-B27-C1;                | A27-B27-C2;                | A27-B27-C3; | A27-B27-C4;                | A27-B27-C5;                | A27-B27-C6; |
| A27-B27-C7;                | A27-B27-C8;                | A27-B27-C9; | A28-B27-C1;                | A28-B27-C2;                | A28-B27-C3; |
| A28-B27-C4;                | A28-B27-C5;                | A28-B27-C6; | A28-B27-C7;                | A28-B27-C8;                | A28-B27-C9; |
| A29-B27-C1;                | A29-B27-C2;                | A29-B27-C3; | A29-B27-C4;                | A29-B27-C5;                | A29-B27-C6; |
| A29-B27-C7;                | A29-B27-C8;                | A29-B27-C9; | A30-B27-C1;                | A30-B27-C2;                | A30-B27-C3; |
| A30-B27-C4;                | A30-B27-C5;                | A30-B27-C6; | A30-B27-C7;                | A30-B27-C8;                | A30-B27-C9; |
| A31-B27-C1;                | A31-B27-C2;                | A31-B27-C3; | A31-B27-C4;                | A31-B27-C5;                | A31-B27-C6; |
| A31-B27-C7;                | A31-B27-C8;                | A31-B27-C9; | A32-B27-C1;                | A32-B27-C2;                | A32-B27-C3; |
| A32-B27-C4;                | A32-B27-C5;                | A32-B27-C6; | A32-B27-C7;                | A32-B27-C8;                | A32-B27-C9; |
| A33-B27-C1;                | A33-B27-C2;                | A33-B27-C3; | A33-B27-C4;                | A33-B27-C5;                | A33-B27-C6; |
| A33-B27-C7;                | A33-B27-C8;                | A33-B27-C9; | A34-B27-C1;                | A34-B27-C2;                | A34-B27-C3; |
| A34-B27-C4;                | A34-B27-C5;                | A34-B27-C6; | A34-B27-C7;                | A34-B27-C8;                | A34-B27-C9; |
| A35-B27-C1;                | A35-B27-C2;                | A35-B27-C3; | A35-B27-C4;                | A35-B27-C5;                | A35-B27-C6; |
| A35-B27-C7;                | A35-B27-C8;                | A35-B27-C9; | A36-B27-C1;                | A36-B27-C2;                | A36-B27-C3; |
| A36-B27-C4;                | A36-B27-C5;                | A36-B27-C6; | A36-B27-C7;                | A36-B27-C8;                | A36-B27-C9; |
| A37-B27-C1;                | A37-B27-C2;                | A37-B27-C3; | A37-B27-C4;                | A37-B27-C5;                | A37-B27-C6; |
| A37-B27-C7;                | A37-B27-C8;                | A37-B27-C9; | A38-B27-C1;                | A38-B27-C2;                | A38-B27-C3; |
| A38-B27-C4;                | A38-B27-C5;                | A38-B27-C6; | A38-B27-C7;                | A38-B27-C8;                | A38-B27-C9; |
| A39-B27-C1;                | A39-B27-C2;                | A39-B27-C3; | A39-B27-C4;                | A39-B27-C5;                | A39-B27-C6; |
| A39-B27-C1;                | A39-B27-C2;<br>A39-B27-C8; | A39-B27-C9; | A40-B27-C1;                | A40-B27-C2;                | A40-B27-C3; |
| A40-B27-C4;                | A40-B27-C5;                | A40-B27-C6; | A40-B27-C1;<br>A40-B27-C7; | A40-B27-C2;<br>A40-B27-C8; |             |
| A41-B27-C1;                | A41-B27-C2;                |             |                            | A40-B27-C8;<br>A41-B27-C5; | A40-B27-C9; |
| A41-B27-C1;<br>A41-B27-C7; | A41-B27-C2;<br>A41-B27-C8; | A41-B27-C3; | A41-B27-C4;                | A41-B27-C3;<br>A42-B27-C2; | A41-B27-C6; |
| A41-B27-C7;<br>A42-B27-C4; | A41-B27-C8;<br>A42-B27-C5; | A41-B27-C9; | A42-B27-C1;<br>A42-B27-C7; |                            | A42-B27-C3; |
|                            |                            | A42-B27-C6; |                            | A42-B27-C8;                | A42-B27-C9; |
| A43-B27-C1;                | A43-B27-C2;                | A43-B27-C3; | A43-B27-C4;                | A43-B27-C5;                | A43-B27-C6; |
| A43-B27-C7;                | A43-B27-C8;                | A43-B27-C9; | A44-B27-C1;                | A44-B27-C2;                | A44-B27-C3; |
| A44-B27-C4;                | A44-B27-C5;                | A44-B27-C6; | A44-B27-C7;                | A44-B27-C8;                | A44-B27-C9; |
| A45-B27-C1;                | A45-B27-C2;                | A45-B27-C3; | A45-B27-C4;                | A45-B27-C5;                | A45-B27-C6; |
| A45-B27-C7;                | A45-B27-C8;                | A45-B27-C9; | A46-B27-C1;                | A46-B27-C2;                | A46-B27-C3; |
| A46-B27-C4;                | A46-B27-C5;                | A46-B27-C6; | A46-B27-C7;                | A46-B27-C8;                | A46-B27-C9; |
| A47-B27-C1;                | A47-B27-C2;                | A47-B27-C3; | A47-B27-C4;                | A47-B27-C5;                | A47-B27-C6; |
| A47-B27-C7;                | A47-B27-C8;                | A47-B27-C9; | A48-B27-C1;                | A48-B27-C2;                | A48-B27-C3; |
| A48-B27-C4;                | A48-B27-C5;                | A48-B27-C6; | A48-B27-C7;                | A48-B27-C8;                | A48-B27-C9; |
| A49-B27-C1;                | A49-B27-C2;                | A49-B27-C3; | A49-B27-C4;                | A49-B27-C5;                | A49-B27-C6; |
| A49-B27-C7;                | A49-B27-C8;                | A49-B27-C9; | A50-B27-C1;                | A50-B27-C2;                | A50-B27-C3; |
| A50-B27-C4;                | A50-B27-C5;                | A50-B27-C6; | A50-B27-C7;                | A50-B27-C8;                | A50-B27-C9; |
| A51-B27-C1;                | A51-B27-C2;                | A51-B27-C3; | A51-B27-C4;                | A51-B27-C5;                | A51-B27-C6; |
| A51-B27-C7;                | A51-B27-C8;                | A51-B27-C9; | A52-B27-C1;                | A52-B27-C2;                | A52-B27-C3; |
| A52-B27-C4;                | A52-B27-C5;                | A52-B27-C6; | A52-B27-C7;                | A52-B27-C8;                | A52-B27-C9; |
| A53-B27-C1;                | A53-B27-C2;                | A53-B27-C3; | A53-B27-C4;                | A53-B27-C5;                | A53-B27-C6; |
| A53-B27-C7;                | A53-B27-C8;                | A53-B27-C9; | A54-B27-C1;                | A54-B27-C2;                | A54-B27-C3; |
| A54-B27-C4;                | A54-B27-C5;                | A54-B27-C6; | A54-B27-C7;                | A54-B27-C8;                | A54-B27-C9; |
| A55-B27-C1;                | A55-B27-C2;                | A55-B27-C3; | A55-B27-C4;                | A55-B27-C5;                | A55-B27-C6; |
| A55-B27-C7;                | A55-B27-C8;                | A55-B27-C9; | A56-B27-C1;                | A56-B27-C2;                | A56-B27-C3; |
| A56-B27-C4;                | A56-B27-C5;                | A56-B27-C6; | A56-B27-C7;                | A56-B27-C8;                | A56-B27-C9; |
| A57-B27-C1;                | A57-B27-C2;                | A57-B27-C3; | A57-B27-C4;                | A57-B27-C5;                | A57-B27-C6; |
| A57-B27-C7;                | A57-B27-C8;                | A57-B27-C9; | A58-B27-C1;                | A58-B27-C2;                | A58-B27-C3; |
| A58-B27-C4;                | A58-B27-C5;                | A58-B27-C6; | A58-B27-C7;                | A58-B27-C8;                | A58-B27-C9; |
| A59-B27-C1;                | A59-B27-C2;                | A59-B27-C3; | A59-B27-C4;                | A59-B27-C5;                | A59-B27-C6; |
|                            | -                          | •           | *                          | -                          | •           |

| A59-B27-C7; | A59-B27-C8; | A59-B27-C9; | A60-B27-C1;                | A60-B27-C2;                | A60-B27-C3;                |
|-------------|-------------|-------------|----------------------------|----------------------------|----------------------------|
| A60-B27-C4; | A60-B27-C5; | A60-B27-C6; | A60-B27-C7;                | A60-B27-C8;                | A60-B27-C9;                |
| A61-B27-C1; | A61-B27-C2; | A61-B27-C3; | A61-B27-C4;                | A61-B27-C5;                | A61-B27-C6;                |
| A61-B27-C7; | A61-B27-C8; | A61-B27-C9; | A62-B27-C1;                | A62-B27-C2;                | A62-B27-C3;                |
| A62-B27-C4; | A62-B27-C5; | A62-B27-C6; | A62-B27-C7;                | A62-B27-C8;                | A62-B27-C9;                |
| A63-B27-C1; | A63-B27-C2; | A63-B27-C3; | A63-B27-C4;                | A63-B27-C5;                | A63-B27-C6;                |
| A63-B27-C7; | A63-B27-C8; | A63-B27-C9; | A64-B27-C1;                | A64-B27-C2;                | A64-B27-C3;                |
| A64-B27-C4; | A64-B27-C5; | A64-B27-C6; | A64-B27-C7;                | A64-B27-C8;                | A64-B27-C9;                |
| A65-B27-C1; | A65-B27-C2; | A65-B27-C3; | A65-B27-C4;                | A65-B27-C5;                | A65-B27-C6;                |
| A65-B27-C7; | A65-B27-C8; | A65-B27-C9; | A66-B27-C1;                | A66-B27-C2;                | A66-B27-C3;                |
| A66-B27-C4; | A66-B27-C5; | A66-B27-C6; | A66-B27-C7;                | A66-B27-C8;                | A66-B27-C9;                |
| A67-B27-C1; | A67-B27-C2; | A67-B27-C3; | A67-B27-C4;                | A67-B27-C5;                | A67-B27-C6;                |
| A67-B27-C1; | A67-B27-C2; | A67-B27-C9; | A68-B27-C1;                | A68-B27-C2;                | A68-B27-C3;                |
| A68-B27-C4; | A68-B27-C5; | A68-B27-C6; | A68-B27-C7;                | A68-B27-C8;                | A68-B27-C9;                |
| A69-B27-C1; | A69-B27-C3; | A69-B27-C3; | A69-B27-C4;                | A69-B27-C5;                | A69-B27-C6;                |
| A69-B27-C1; | A69-B27-C2; | A69-B27-C9; | A70-B27-C4;                | A70-B27-C3;                | A70-B27-C3;                |
| A70-B27-C4; | A70-B27-C5; | A70-B27-C6; | A70-B27-C1;<br>A70-B27-C7; | A70-B27-C2;<br>A70-B27-C8; | A70-B27-C3;<br>A70-B27-C9; |
|             |             |             |                            | A70-B27-C8;<br>A71-B27-C5; | A70-B27-C9;<br>A71-B27-C6; |
| A71-B27-C1; | A71-B27-C2; | A71-B27-C3; | A71-B27-C4;                |                            |                            |
| A71-B27-C7; | A71-B27-C8; | A71-B27-C9; | A1-B28-C1;                 | A1-B28-C2;                 | A1-B28-C3;                 |
| A1-B28-C4;  | A1-B28-C5;  | A1-B28-C6;  | A1-B28-C7;                 | A1-B28-C8;                 | A1-B28-C9;                 |
| A2-B28-C1;  | A2-B28-C2;  | A2-B28-C3;  | A2-B28-C4;                 | A2-B28-C5;                 | A2-B28-C6;                 |
| A2-B28-C7;  | A2-B28-C8;  | A2-B28-C9;  | A3-B28-C1;                 | A3-B28-C2;                 | A3-B28-C3;                 |
| A3-B28-C4;  | A3-B28-C5;  | A3-B28-C6;  | A3-B28-C7;                 | A3-B28-C8;                 | A3-B28-C9;                 |
| A4-B28-C1;  | A4-B28-C2;  | A4-B28-C3;  | A4-B28-C4;                 | A4-B28-C5;                 | A4-B28-C6;                 |
| A4-B28-C7;  | A4-B28-C8;  | A4-B28-C9;  | A5-B28-C1;                 | A5-B28-C2;                 | A5-B28-C3;                 |
| A5-B28-C4;  | A5-B28-C5;  | A5-B28-C6;  | A5-B28-C7;                 | A5-B28-C8;                 | A5-B28-C9;                 |
| A6-B28-C1;  | A6-B28-C2;  | A6-B28-C3;  | A6-B28-C4;                 | A6-B28-C5;                 | A6-B28-C6;                 |
| A6-B28-C7;  | A6-B28-C8;  | A6-B28-C9;  | A7-B28-C1;                 | A7-B28-C2;                 | A7-B28-C3;                 |
| A7-B28-C4;  | A7-B28-C5;  | A7-B28-C6;  | A7-B28-C7;                 | A7-B28-C8;                 | A7-B28-C9;                 |
| A8-B28-C1;  | A8-B28-C2;  | A8-B28-C3;  | A8-B28-C4;                 | A8-B28-C5;                 | A8-B28-C6;                 |
| A8-B28-C7;  | A8-B28-C8;  | A8-B28-C9;  | A9-B28-C1;                 | A9-B28-C2;                 | A9-B28-C3;                 |
| A9-B28-C4;  | A9-B28-C5;  | A9-B28-C6;  | A9-B28-C7;                 | A9-B28-C8;                 | A9-B28-C9;                 |
| A10-B28-C1; | A10-B28-C2; | A10-B28-C3; | A10-B28-C4;                | A10-B28-C5;                | A10-B28-C6;                |
| A10-B28-C7; | A10-B28-C8; | A10-B28-C9; | A11-B28-C1;                | A11-B28-C2;                | A11-B28-C3;                |
| A11-B28-C4; | A11-B28-C5; | A11-B28-C6; | A11-B28-C7;                | A11-B28-C8;                | A11-B28-C9;                |
| A12-B28-C1; | A12-B28-C2; | A12-B28-C3; | A12-B28-C4;                | A12-B28-C5;                | A12-B28-C6;                |
| A12-B28-C7; | A12-B28-C8; | A12-B28-C9; | A13-B28-C1;                | A13-B28-C2;                | A13-B28-C3;                |
| A13-B28-C4; | A13-B28-C5; | A13-B28-C6; | A13-B28-C7;                | A13-B28-C8;                | A13-B28-C9;                |
| A14-B28-C1; | A14-B28-C2; | A14-B28-C3; | A14-B28-C4;                | A14-B28-C5;                | A14-B28-C6;                |
| A14-B28-C7; | A14-B28-C8; | A14-B28-C9; | A15-B28-C1;                | A15-B28-C2;                | A15-B28-C3;                |
| A15-B28-C4; | A15-B28-C5; | A15-B28-C6; | A15-B28-C7;                | A15-B28-C8;                | A15-B28-C9;                |
| A16-B28-C1; | A16-B28-C2; | A16-B28-C3; | A16-B28-C4;                | A16-B28-C5;                | A16-B28-C6;                |
| A16-B28-C7; | A16-B28-C8; | A16-B28-C9; | A17-B28-C1;                | A17-B28-C2;                | A17-B28-C3;                |
| A17-B28-C4; | A17-B28-C5; | A17-B28-C6; | A17-B28-C7;                | A17-B28-C8;                | A17-B28-C9;                |
| A18-B28-C1; | A18-B28-C2; | A18-B28-C3; | A18-B28-C4;                | A18-B28-C5;                | A18-B28-C6;                |
| A18-B28-C7; | A18-B28-C8; | A18-B28-C9; | A19-B28-C1;                | A19-B28-C2;                | A19-B28-C3;                |
| A19-B28-C4; | A19-B28-C5; | A19-B28-C6; | A19-B28-C7;                | A19-B28-C8;                | A19-B28-C9;                |
| A20-B28-C1; | A20-B28-C2; | A20-B28-C3; | A20-B28-C4;                | A20-B28-C5;                | A20-B28-C6;                |
| A20-B28-C7; | A20-B28-C8; | A20-B28-C9; | A21-B28-C1;                | A21-B28-C2;                | A21-B28-C3;                |
| A21-B28-C4; | A21-B28-C5; | A21-B28-C6; | A21-B28-C7;                | A21-B28-C8;                | A21-B28-C9;                |
| A22-B28-C1; | A22-B28-C2; | A22-B28-C3; | A22-B28-C4;                | A22-B28-C5;                | A22-B28-C6;                |
| A22-B28-C7; | A22-B28-C8; | A22-B28-C9; | A23-B28-C1;                | A23-B28-C2;                | A23-B28-C3;                |
| A23-B28-C4; | A23-B28-C5; | A23-B28-C6; | A23-B28-C7;                | A23-B28-C8;                | A23-B28-C9;                |
| A24-B28-C1; | A24-B28-C2; | A24-B28-C3; | A24-B28-C4;                | A24-B28-C5;                | A24-B28-C6;                |
| A24-B28-C7; | A24-B28-C8; | A24-B28-C9; | A25-B28-C1;                | A25-B28-C2;                | A25-B28-C3;                |
|             |             | •           | •                          | -                          | •                          |

| A25-B28-C4;                | A25-B28-C5;                | A25-B28-C6;                | A25-B28-C7;                | A25-B28-C8;                | A25-B28-C9;                |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A26-B28-C1;                | A26-B28-C2;                | A26-B28-C3;                | A26-B28-C4;                | A26-B28-C5;                | A26-B28-C6;                |
| A26-B28-C7;                | A26-B28-C8;                | A26-B28-C9;                | A27-B28-C1;                | A27-B28-C2;                | A27-B28-C3;                |
| A27-B28-C4;                | A27-B28-C5;                | A27-B28-C6;                | A27-B28-C7;                | A27-B28-C8;                | A27-B28-C9;                |
| A28-B28-C1;                | A28-B28-C2;                | A28-B28-C3;                | A28-B28-C4;                | A28-B28-C5;                | A28-B28-C6;                |
| A28-B28-C7;                | A28-B28-C8;                | A28-B28-C9;                | A29-B28-C1;                | A29-B28-C2;                | A29-B28-C3;                |
| A29-B28-C4;                | A29-B28-C5;                | A29-B28-C6;                | A29-B28-C7;                | A29-B28-C8;                | A29-B28-C9;                |
| A30-B28-C1;                | A30-B28-C2;                | A30-B28-C3;                | A30-B28-C4;                | A30-B28-C5;                | A30-B28-C6;                |
| A30-B28-C7;                | A30-B28-C8;                | A30-B28-C9;                | A31-B28-C1;                | A31-B28-C2;                | A31-B28-C3;                |
| A31-B28-C4;                | A31-B28-C5;                | A31-B28-C6;                | A31-B28-C7;                | A31-B28-C8;                | A31-B28-C9;                |
| A32-B28-C1;                | A32-B28-C2;                | A32-B28-C3;                | A32-B28-C4;                | A32-B28-C5;                | A32-B28-C6;                |
| A32-B28-C7;                | A32-B28-C8;                | A32-B28-C9;                | A33-B28-C1;                | A33-B28-C2;                | A33-B28-C3;                |
| A33-B28-C4;                | A33-B28-C5;                | A33-B28-C6;                | A33-B28-C7;                | A33-B28-C8;                | A33-B28-C9;                |
| A34-B28-C1;                | A34-B28-C2;                | A34-B28-C3;                | A34-B28-C4;                | A34-B28-C5;                | A34-B28-C6;                |
| A34-B28-C7;                | A34-B28-C8;                | A34-B28-C9;                | A35-B28-C1;                | A35-B28-C2;                | A35-B28-C3;                |
| A35-B28-C4;                | A35-B28-C5;                | A35-B28-C6;                | A35-B28-C7;                | A35-B28-C8;                | A35-B28-C9;                |
| A36-B28-C1;                | A36-B28-C2;                | A36-B28-C3;                | A36-B28-C4;                | A36-B28-C5;                | A36-B28-C6;                |
| A36-B28-C7;                | A36-B28-C8;                | A36-B28-C9;                | A37-B28-C1;                | A37-B28-C2;                | A37-B28-C3;                |
| A37-B28-C4;                | A37-B28-C5;                | A37-B28-C6;                | A37-B28-C7;                | A37-B28-C8;                | A37-B28-C9;                |
| A38-B28-C1;                | A38-B28-C2;                | A38-B28-C3;                | A38-B28-C4;                | A38-B28-C5;                | A38-B28-C6;                |
| A38-B28-C7;                | A38-B28-C8;                | A38-B28-C9;                | A39-B28-C1;                | A39-B28-C2;                | A39-B28-C3;                |
| A39-B28-C4;                | A39-B28-C5;                | A39-B28-C6;                | A39-B28-C7;                | A39-B28-C8;                | A39-B28-C9;                |
| A40-B28-C1;                | A40-B28-C2;                | A40-B28-C3;                | A40-B28-C4;                | A40-B28-C5;                | A40-B28-C6;                |
| A40-B28-C7;                | A40-B28-C8;                | A40-B28-C9;                | A41-B28-C1;                | A41-B28-C2;                | A41-B28-C3;                |
| A41-B28-C4;                | A41-B28-C5;                | A41-B28-C6;                | A41-B28-C7;                | A41-B28-C8;                | A41-B28-C9;                |
| A42-B28-C1;                | A42-B28-C2;                | A42-B28-C3;                | A42-B28-C4;                | A42-B28-C5;                | A42-B28-C6;                |
| A42-B28-C7;                | A42-B28-C8;                | A42-B28-C9;                | A43-B28-C1;                | A43-B28-C2;                | A43-B28-C3;                |
| A43-B28-C4;                | A43-B28-C5;                | A43-B28-C6;                | A43-B28-C7;                | A43-B28-C8;                | A43-B28-C9;                |
| A44-B28-C1;                | A44-B28-C2;                | A44-B28-C3;                | A44-B28-C4;                | A44-B28-C5;                | A44-B28-C6;                |
| A44-B28-C7;                | A44-B28-C8;                | A44-B28-C9;                | A45-B28-C1;                | A45-B28-C2;                | A45-B28-C3;                |
| A45-B28-C4;                | A45-B28-C5;                | A45-B28-C6;                | A45-B28-C7;                | A45-B28-C8;                | A45-B28-C9;                |
| A46-B28-C1;                | A46-B28-C2;                | A46-B28-C3;                | A46-B28-C4;                | A46-B28-C5;                | A46-B28-C6;                |
| A46-B28-C7;                | A46-B28-C8;                | A46-B28-C9;                | A47-B28-C1;                | A47-B28-C2;                | A47-B28-C3;                |
| A47-B28-C4;                | A47-B28-C5;                | A47-B28-C6;                | A47-B28-C7;                | A47-B28-C8;                | A47-B28-C9;                |
| A48-B28-C1;                | A48-B28-C2;                | A48-B28-C3;                | A48-B28-C4;                | A48-B28-C5;                | A48-B28-C6;                |
| A48-B28-C7;                | A48-B28-C8;                | A48-B28-C9;                | A49-B28-C1;                | A49-B28-C2;                | A49-B28-C3;                |
| A49-B28-C4;                | A49-B28-C5;                | A49-B28-C6;                | A49-B28-C7;                | A49-B28-C8;                | A49-B28-C9;                |
| A50-B28-C1;                | A50-B28-C2;                | A50-B28-C3;                | A50-B28-C4;                | A50-B28-C5;<br>A51-B28-C2; | A50-B28-C6;                |
| A50-B28-C7;                | A50-B28-C8;                | A50-B28-C9;<br>A51-B28-C6; | A51-B28-C1;<br>A51-B28-C7; | A51-B28-C2;<br>A51-B28-C8; | A51-B28-C3;<br>A51-B28-C9; |
| A51-B28-C4;                | A51-B28-C5;<br>A52-B28-C2; | A51-B28-C0,<br>A52-B28-C3; | A51-B28-C7;<br>A52-B28-C4; | A51-B28-C8;<br>A52-B28-C5; | A51-B28-C9;<br>A52-B28-C6; |
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| A52-B28-C7;<br>A53-B28-C4; | A52-B28-C5;                | A52-B28-C9;<br>A53-B28-C6; | A53-B28-C1;<br>A53-B28-C7; | A53-B28-C2;<br>A53-B28-C8; | A53-B28-C9;                |
| A54-B28-C1;                | A54-B28-C2;                | A54-B28-C3;                | A54-B28-C4;                | A54-B28-C5;                | A54-B28-C6;                |
| A54-B28-C7;                | A54-B28-C2;<br>A54-B28-C8; | A54-B28-C9;                | A55-B28-C1;                | A54-B28-C3;<br>A55-B28-C2; | A55-B28-C3;                |
| A54-B28-C7;<br>A55-B28-C4; | A54-B28-C5;                | A55-B28-C6;                | A55-B28-C7;                | A55-B28-C8;                | A55-B28-C9;                |
| A56-B28-C1;                | A56-B28-C2;                | A56-B28-C3;                | A56-B28-C4;                | A56-B28-C5;                | A56-B28-C6;                |
| A56-B28-C7;                | A56-B28-C8;                | A56-B28-C9;                | A57-B28-C1;                | A57-B28-C2;                | A57-B28-C3;                |
| A50-B28-C7;<br>A57-B28-C4; | A50-B28-C5;                | A50-B28-C9;<br>A57-B28-C6; | A57-B28-C1;<br>A57-B28-C7; | A57-B28-C2;<br>A57-B28-C8; | A57-B28-C9;                |
| A58-B28-C1;                | A58-B28-C2;                | A58-B28-C3;                | A58-B28-C4;                | A58-B28-C5;                | A58-B28-C6;                |
| A58-B28-C1;<br>A58-B28-C7; | A58-B28-C8;                | A58-B28-C9;                | A58-B28-C1;                | A59-B28-C2;                | A59-B28-C3;                |
| A59-B28-C4;                | A59-B28-C5;                | A59-B28-C6;                | A59-B28-C7;                | A59-B28-C8;                | A59-B28-C9;                |
| A60-B28-C1;                | A60-B28-C2;                | A60-B28-C3;                | A60-B28-C4;                | A60-B28-C5;                | A60-B28-C6;                |
| A60-B28-C7;                | A60-B28-C8;                | A60-B28-C9;                | A61-B28-C1;                | A61-B28-C2;                | A61-B28-C3;                |
| A61-B28-C4;                | A61-B28-C5;                | A61-B28-C6;                | A61-B28-C7;                | A61-B28-C8;                | A61-B28-C9;                |
|                            | 220 00,                    | ,                          | 220 0.,                    | ,                          | ,                          |

| A62-B28-C1;                | A62-B28-C2;                | A62-B28-C3;                           | A62-B28-C4; | A62-B28-C5;                | A62-B28-C6;                |
|----------------------------|----------------------------|---------------------------------------|-------------|----------------------------|----------------------------|
| A62-B28-C7;                |                            |                                       |             |                            |                            |
|                            | A62-B28-C8;                | A62-B28-C9;                           | A63-B28-C1; | A63-B28-C2;                | A63-B28-C3;                |
| A63-B28-C4;                | A63-B28-C5;                | A63-B28-C6;                           | A63-B28-C7; | A63-B28-C8;                | A63-B28-C9;                |
| A64-B28-C1;                | A64-B28-C2;                | A64-B28-C3;                           | A64-B28-C4; | A64-B28-C5;                | A64-B28-C6;                |
| A64-B28-C7;                | A64-B28-C8;                | A64-B28-C9;                           | A65-B28-C1; | A65-B28-C2;                | A65-B28-C3;                |
| A65-B28-C4;                | A65-B28-C5;                | A65-B28-C6;                           | A65-B28-C7; | A65-B28-C8;                | A65-B28-C9;                |
| A66-B28-C1;                | A66-B28-C2;                | A66-B28-C3;                           | A66-B28-C4; | A66-B28-C5;                | A66-B28-C6;                |
| A66-B28-C7;                | A66-B28-C8;                | A66-B28-C9;                           | A67-B28-C1; | A67-B28-C2;                | A67-B28-C3;                |
| A67-B28-C4;                | A67-B28-C5;                | A67-B28-C6;                           | A67-B28-C7; | A67-B28-C8;                | A67-B28-C9;                |
| A68-B28-C1;                | A68-B28-C2;                | A68-B28-C3;                           | A68-B28-C4; | A68-B28-C5;                | A68-B28-C6;                |
| A68-B28-C7;                | A68-B28-C8;                | A68-B28-C9;                           | A69-B28-C1; | A69-B28-C2;                | A69-B28-C3;                |
| A69-B28-C4;                | A69-B28-C5;                | A69-B28-C6;                           | A69-B28-C7; | A69-B28-C8;                | A69-B28-C9;                |
| A70-B28-C1;                | A70-B28-C2;                | A70-B28-C3;                           | A70-B28-C4; | A70-B28-C5;                | A70-B28-C6;                |
| A70-B28-C7;                | A70-B28-C8;                | A70-B28-C9;                           | A71-B28-C1; | A71-B28-C2;                | A71-B28-C3;                |
| A71-B28-C4;                | A71-B28-C5;                | A71-B28-C6;                           | A71-B28-C7; | A71-B28-C8;                | A71-B28-C9;                |
| A1-B29-C1;                 | A1-B29-C2;                 | A1-B29-C3;                            | A1-B29-C4;  | A1-B29-C5;                 | A1-B29-C6;                 |
| A1-B29-C7;                 | A1-B29-C8;                 | A1-B29-C9;                            | A2-B29-C1;  | A2-B29-C2;                 | A2-B29-C3;                 |
| A2-B29-C4;                 | A2-B29-C5;                 | A2-B29-C6;                            | A2-B29-C7;  | A2-B29-C8;                 | A2-B29-C9;                 |
| A3-B29-C1;                 | A3-B29-C2;                 | A3-B29-C3;                            | A3-B29-C4;  | A3-B29-C5;                 | A3-B29-C6;                 |
| A3-B29-C7;                 | A3-B29-C8;                 | A3-B29-C9;                            | A4-B29-C1;  | A4-B29-C2;                 | A4-B29-C3;                 |
| A4-B29-C4;                 | A4-B29-C5;                 | A4-B29-C6;                            | A4-B29-C7;  | A4-B29-C8;                 | A4-B29-C9;                 |
| A5-B29-C1;                 | A5-B29-C2;                 | A5-B29-C3;                            |             | A5-B29-C5;                 |                            |
|                            |                            |                                       | A5-B29-C4;  |                            | A5-B29-C6;                 |
| A5-B29-C7;                 | A5-B29-C8;                 | A5-B29-C9;                            | A6-B29-C1;  | A6-B29-C2;                 | A6-B29-C3;                 |
| A6-B29-C4;                 | A6-B29-C5;                 | A6-B29-C6;                            | A6-B29-C7;  | A6-B29-C8;                 | A6-B29-C9;                 |
| A7-B29-C1;                 | A7-B29-C2;                 | A7-B29-C3;                            | A7-B29-C4;  | A7-B29-C5;                 | A7-B29-C6;                 |
| A7-B29-C7;                 | A7-B29-C8;                 | A7-B29-C9;                            | A8-B29-C1;  | A8-B29-C2;                 | A8-B29-C3;                 |
| A8-B29-C4;                 | A8-B29-C5;                 | A8-B29-C6;                            | A8-B29-C7;  | A8-B29-C8;                 | A8-B29-C9;                 |
| A9-B29-C1;                 | A9-B29-C2;                 | A9-B29-C3;                            | A9-B29-C4;  | A9-B29-C5;                 | A9-B29-C6;                 |
| A9-B29-C7;                 | A9-B29-C8;                 | A9-B29-C9;                            | A10-B29-C1; | A10-B29-C2;                | A10-B29-C3;                |
| A10-B29-C4;                | A10-B29-C5;                | A10-B29-C6;                           | A10-B29-C7; | A10-B29-C8;                | A10-B29-C9;                |
| A11-B29-C1;                | A11-B29-C2;                | A11-B29-C3;                           | A11-B29-C4; | A11-B29-C5;                | A11-B29-C6;                |
| A11-B29-C7;                | A11-B29-C8;                | A11-B29-C9;                           | A12-B29-C1; | A12-B29-C2;                | A12-B29-C3;                |
| A12-B29-C4;                | A12-B29-C5;                | A12-B29-C6;                           | A12-B29-C7; | A12-B29-C8;                | A12-B29-C9;                |
| A13-B29-C1;                | A13-B29-C2;                | A13-B29-C3;                           | A13-B29-C4; | A13-B29-C5;                | A13-B29-C6;                |
| A13-B29-C7;                | A13-B29-C8;                | A13-B29-C9;                           | A14-B29-C1; | A14-B29-C2;                | A14-B29-C3;                |
| A14-B29-C4;                | A14-B29-C5;                | A14-B29-C6;                           | A14-B29-C7; | A14-B29-C8;                | A14-B29-C9;                |
| A15-B29-C1;                | A15-B29-C2;                | A15-B29-C3;                           | A15-B29-C4; | A15-B29-C5;                | A15-B29-C6;                |
| A15-B29-C7;                | A15-B29-C8;                | A15-B29-C9;                           | A16-B29-C1; | A16-B29-C2;                | A16-B29-C3;                |
| A16-B29-C4;                | A16-B29-C5;                | A16-B29-C6;                           | A16-B29-C7; | A16-B29-C8;                | A16-B29-C9;                |
| A17-B29-C1;                | A17-B29-C2;                | A17-B29-C3;                           | A17-B29-C4; | A17-B29-C5;                | A17-B29-C6;                |
| A17-B29-C7;                | A17-B29-C8;                | A17-B29-C9;                           | A18-B29-C1; | A18-B29-C2;                | A18-B29-C3;                |
| A18-B29-C4;                | A18-B29-C5;                | A18-B29-C6;                           | A18-B29-C7; | A18-B29-C8;                | A18-B29-C9;                |
| A19-B29-C1;                | A19-B29-C2;                | A19-B29-C3;                           | A19-B29-C4; | A19-B29-C5;                | A19-B29-C6;                |
| A19-B29-C7;                | A19-B29-C8;                | A19-B29-C9;                           | A20-B29-C1; | A20-B29-C2;                | A20-B29-C3;                |
| A20-B29-C4;                | A20-B29-C5;                | A20-B29-C6;                           | A20-B29-C7; | A20-B29-C2;                | A20-B29-C9;                |
| A21-B29-C1;                | A21-B29-C2;                | A21-B29-C3;                           | A21-B29-C4; | A21-B29-C5;                | A20-B29-C6;                |
| A21-B29-C1;<br>A21-B29-C7; | A21-B29-C2;<br>A21-B29-C8; | A21-B29-C9;                           | A22-B29-C1; | A21-B29-C3;<br>A22-B29-C2; | A21-B29-C0;<br>A22-B29-C3; |
|                            |                            | · · · · · · · · · · · · · · · · · · · |             | •                          | ,                          |
| A22-B29-C4;                | A22-B29-C5;                | A22-B29-C6;                           | A22-B29-C7; | A22-B29-C8;                | A22-B29-C9;                |
| A23-B29-C1;                | A23-B29-C2;                | A23-B29-C3;                           | A23-B29-C4; | A23-B29-C5;                | A23-B29-C6;                |
| A23-B29-C7;                | A23-B29-C8;                | A23-B29-C9;                           | A24-B29-C1; | A24-B29-C2;                | A24-B29-C3;                |
| A24-B29-C4;                | A24-B29-C5;                | A24-B29-C6;                           | A24-B29-C7; | A24-B29-C8;                | A24-B29-C9;                |
| A25-B29-C1;                | A25-B29-C2;                | A25-B29-C3;                           | A25-B29-C4; | A25-B29-C5;                | A25-B29-C6;                |
| A25-B29-C7;                | A25-B29-C8;                | A25-B29-C9;                           | A26-B29-C1; | A26-B29-C2;                | A26-B29-C3;                |
| A26-B29-C4;                | A26-B29-C5;                | A26-B29-C6;                           | A26-B29-C7; | A26-B29-C8;                | A26-B29-C9;                |
| A27-B29-C1;                | A27-B29-C2;                | A27-B29-C3;                           | A27-B29-C4; | A27-B29-C5;                | A27-B29-C6;                |

| A27-B29-C7;  | A27-B29-C8;                | A27-B29-C9; | A28-B29-C1;                | A28-B29-C2;                | A28-B29-C3; |
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| A28-B29-C4;  | A28-B29-C5;                | A28-B29-C6; | A28-B29-C7;                | A28-B29-C8;                | A28-B29-C9; |
| A29-B29-C1;  | A29-B29-C2;                | A29-B29-C3; | A29-B29-C4;                | A29-B29-C5;                | A29-B29-C6; |
| A29-B29-C7;  | A29-B29-C8;                | A29-B29-C9; | A30-B29-C1;                | A30-B29-C2;                | A30-B29-C3; |
| A30-B29-C4;  | A30-B29-C5;                | A30-B29-C6; | A30-B29-C7;                | A30-B29-C8;                | A30-B29-C9; |
| A31-B29-C1;  | A31-B29-C2;                | A31-B29-C3; | A31-B29-C4;                | A31-B29-C5;                | A31-B29-C6; |
| A31-B29-C7;  | A31-B29-C8;                | A31-B29-C9; | A32-B29-C1;                | A32-B29-C2;                | A32-B29-C3; |
| A32-B29-C4;  | A32-B29-C5;                | A32-B29-C6; | A32-B29-C7;                | A32-B29-C8;                | A32-B29-C9; |
| A33-B29-C1;  | A33-B29-C2;                | A33-B29-C3; | A33-B29-C4;                | A33-B29-C5;                | A33-B29-C6; |
| A33-B29-C7;  | A33-B29-C8;                | A33-B29-C9; | A34-B29-C1;                | A34-B29-C2;                | A34-B29-C3; |
| A34-B29-C4;  | A34-B29-C5;                | A34-B29-C6; | A34-B29-C7;                | A34-B29-C8;                | A34-B29-C9; |
| A35-B29-C1;  | A35-B29-C2;                | A35-B29-C3; | A35-B29-C4;                | A35-B29-C5;                | A35-B29-C6; |
| A35-B29-C7;  | A35-B29-C8;                | A35-B29-C9; | A36-B29-C1;                | A36-B29-C2;                | A36-B29-C3; |
| A36-B29-C4;  | A36-B29-C5;                | A36-B29-C6; | A36-B29-C7;                | A36-B29-C8;                | A36-B29-C9; |
| A37-B29-C1;  | A37-B29-C2;                | A37-B29-C3; | A37-B29-C4;                | A37-B29-C5;                | A37-B29-C6; |
| A37-B29-C7;  | A37-B29-C8;                | A37-B29-C9; | A38-B29-C1;                | A38-B29-C2;                | A38-B29-C3; |
| A38-B29-C4;  | A38-B29-C5;                | A38-B29-C6; | A38-B29-C7;                | A38-B29-C8;                | A38-B29-C9; |
| A39-B29-C1;  | A39-B29-C2;                | A39-B29-C3; | A39-B29-C4;                | A39-B29-C5;                | A39-B29-C6; |
| A39-B29-C7;  | A39-B29-C8;                | A39-B29-C9; | A40-B29-C1;                | A40-B29-C2;                | A40-B29-C3; |
| A40-B29-C4;  | A40-B29-C5;                | A40-B29-C6; | A40-B29-C7;                | A40-B29-C8;                | A40-B29-C9; |
| A41-B29-C1;  | A41-B29-C2;                | A41-B29-C3; | A41-B29-C4;                | A41-B29-C5;                | A41-B29-C6; |
| A41-B29-C7;  | A41-B29-C8;                | A41-B29-C9; | A42-B29-C1;                | A42-B29-C2;                | A42-B29-C3; |
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| A43-B29-C1;  | A43-B29-C2;                | A43-B29-C3; | A43-B29-C4;                | A43-B29-C5;                | A43-B29-C6; |
| A43-B29-C7;  | A43-B29-C8;                | A43-B29-C9; | A44-B29-C1;                | A44-B29-C2;                | A44-B29-C3; |
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| A45-B29-C7;  | A45-B29-C8;                | A45-B29-C9; | A46-B29-C1;                | A46-B29-C2;                | A46-B29-C3; |
| A46-B29-C4;  | A46-B29-C5;                | A46-B29-C6; | A46-B29-C7;                | A46-B29-C8;                | A46-B29-C9; |
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| A47-B29-C7;  | A47-B29-C8;                | A47-B29-C9; | A48-B29-C1;                | A48-B29-C2;                | A48-B29-C3; |
| A48-B29-C4;  | A48-B29-C5;                | A48-B29-C6; | A48-B29-C7;                | A48-B29-C8;                | A48-B29-C9; |
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| A49-B29-C7;  | A49-B29-C8;                | A49-B29-C9; | A50-B29-C1;                | A50-B29-C2;                | A50-B29-C3; |
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| A55-B29-C7;  | A55-B29-C8;                | A55-B29-C9; | A56-B29-C1;                | A56-B29-C2;                | A56-B29-C3; |
| A56-B29-C4;  | A56-B29-C5;                | A56-B29-C6; | A56-B29-C7;                | A56-B29-C8;                | A56-B29-C9; |
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| A57-B29-C7;  | A57-B29-C8;                | A57-B29-C9; | A58-B29-C1;                | A58-B29-C2;                | A58-B29-C3; |
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| A59-B29-C7;  | A59-B29-C2;<br>A59-B29-C8; | A59-B29-C9; | A60-B29-C1;                | A60-B29-C2;                | A60-B29-C3; |
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| A61-B29-C7;  | A61-B29-C2;                | A61-B29-C9; | A62-B29-C1;                | A62-B29-C2;                | A62-B29-C3; |
| A62-B29-C4;  | A62-B29-C5;                | A62-B29-C6; | A62-B29-C1;<br>A62-B29-C7; | A62-B29-C2;<br>A62-B29-C8; | A62-B29-C9; |
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| A63-B29-C1;  | A63-B29-C2;<br>A63-B29-C8; | A63-B29-C9; | A64-B29-C1;                | A64-B29-C2;                | A64-B29-C3; |
| 1103-D23-C1, | AUJ-D47-C0,                | ハリン・ロムナーしょ, | AUT-D27-C1,                | AUT-D23*C2,                | AUT-D27-U3; |

| A64-B29-C4;                | A64-B29-C5;                | A64-B29-C6;                | A64-B29-C7;                | A64-B29-C8;                | A64-B29-C9;                |
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| A65-B29-C1;                | A65-B29-C2;                | A65-B29-C3;                | A65-B29-C4;                | A65-B29-C5;                | A65-B29-C6;                |
| A65-B29-C7;                | A65-B29-C8;                | A65-B29-C9;                | A66-B29-C1;                | A66-B29-C2;                | A66-B29-C3;                |
| A66-B29-C4;                | A66-B29-C5;                | A66-B29-C6;                | A66-B29-C7;                | A66-B29-C8;                | A66-B29-C9;                |
| A67-B29-C1;                | A67-B29-C2;                | A67-B29-C3;                | A67-B29-C4;                | A67-B29-C5;                | A67-B29-C6;                |
| A67-B29-C7;                | A67-B29-C8;                | A67-B29-C9;                | A68-B29-C1;                | A68-B29-C2;                | A68-B29-C3;                |
| A68-B29-C4;                | A68-B29-C5;                | A68-B29-C6;                | A68-B29-C7;                | A68-B29-C8;                | A68-B29-C9;                |
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| A69-B29-C7;                | A69-B29-C8;                | A69-B29-C9;                | A70-B29-C1;                | A70-B29-C2;                | A70-B29-C3;                |
| A70-B29-C4;                | A70-B29-C5;                | A70-B29-C6;                | A70-B29-C7;                | A70-B29-C8;                | A70-B29-C9;                |
| A71-B29-C1;                | A71-B29-C2;                | A71-B29-C3;                | A71-B29-C4;                | A71-B29-C5;                | A71-B29-C6;                |
| A71-B29-C7;                | A71-B29-C8;                | A71-B29-C9;                | A1-B30-C1;                 | A1-B30-C2;                 | A1-B30-C3;                 |
| A1-B30-C4;                 | A1-B30-C5;                 | A1-B30-C6;                 | A1-B30-C7;                 | A1-B30-C8;                 | A1-B30-C9;                 |
| A2-B30-C1;                 | A2-B30-C2;                 | A2-B30-C3;                 | A2-B30-C4;                 | A2-B30-C5;                 | A2-B30-C6;                 |
| A2-B30-C7;                 | A2-B30-C8;                 | A2-B30-C9;                 | A3-B30-C1;                 | A3-B30-C2;                 | A3-B30-C3;                 |
| A3-B30-C4;                 | A3-B30-C5;                 | A3-B30-C6;                 | A3-B30-C7;                 | A3-B30-C8;                 | A3-B30-C9;                 |
| A4-B30-C1;                 | A4-B30-C2;                 | A4-B30-C3;                 | A4-B30-C4;                 | A4-B30-C5;                 | A4-B30-C6;                 |
| A4-B30-C7;                 | A4-B30-C8;                 | A4-B30-C9;                 | A5-B30-C1;                 | A5-B30-C2;                 | A5-B30-C3;                 |
| A5-B30-C4;                 | A5-B30-C5;                 | A5-B30-C6;                 | A5-B30-C7;                 | A5-B30-C8;                 | A5-B30-C9;                 |
| A6-B30-C1;                 | A6-B30-C2;                 | A6-B30-C3;                 | A6-B30-C4;                 | A6-B30-C5;                 | A6-B30-C6;                 |
| A6-B30-C7;                 | A6-B30-C8;                 | A6-B30-C9;                 | A7-B30-C1;                 | A7-B30-C2;                 | A7-B30-C3;                 |
| A7-B30-C4;                 | A7-B30-C5;                 | A7-B30-C6;                 | A7-B30-C1;                 | A7-B30-C8;                 | A7-B30-C9;                 |
| A8-B30-C1;                 | A8-B30-C2;                 | A8-B30-C3;                 | A8-B30-C4;                 | A8-B30-C5;                 | A8-B30-C6;                 |
| A8-B30-C7;                 | A8-B30-C2;                 | A8-B30-C9;                 | A9-B30-C4;                 | A9-B30-C3;                 | A9-B30-C3;                 |
| A9-B30-C4;                 | A9-B30-C5;                 | A9-B30-C5;                 | A9-B30-C1;                 | A9-B30-C2;                 | A9-B30-C9;                 |
| A10-B30-C1;                | A10-B30-C3;                | A10-B30-C3;                | A10-B30-C4;                | A10-B30-C5;                | A10-B30-C6;                |
| A10-B30-C1;                | A10-B30-C2;<br>A10-B30-C8; | A10-B30-C3;                | A11-B30-C4;                | A10-B30-C3;                | A11-B30-C3;                |
| A11-B30-C4;                | A11-B30-C5;                | A11-B30-C6;                | A11-B30-C1;                | A11-B30-C2;                | A11-B30-C9;                |
| A11-B30-C4;<br>A12-B30-C1; | A12-B30-C3;                | A11-B30-C0;<br>A12-B30-C3; | A11-B30-C7;<br>A12-B30-C4; | A11-B30-C6;<br>A12-B30-C5; | A11-B30-C9;<br>A12-B30-C6; |
| A12-B30-C1;<br>A12-B30-C7; | A12-B30-C2;<br>A12-B30-C8; | A12-B30-C3;<br>A12-B30-C9; | A12-B30-C4;<br>A13-B30-C1; | A12-B30-C3;                | A12-B30-C0;<br>A13-B30-C3; |
| A13-B30-C4;                | A12-B30-C6;<br>A13-B30-C5; | A13-B30-C6;                | A13-B30-C1;                | A13-B30-C2;                | A13-B30-C9;                |
| A14-B30-C1;                | A14-B30-C2;                | A14-B30-C3;                | A14-B30-C4;                | A14-B30-C5;                | A14-B30-C6;                |
| A14-B30-C1;                | A14-B30-C2;                | A14-B30-C3;<br>A14-B30-C9; | A15-B30-C4;                | A15-B30-C3;                | A15-B30-C3;                |
| A15-B30-C4;                | A14-B30-C6;<br>A15-B30-C5; | A15-B30-C9;                | A15-B30-C1;                | A15-B30-C2;<br>A15-B30-C8; | A15-B30-C9;                |
|                            |                            |                            |                            |                            |                            |
| A16-B30-C1;<br>A16-B30-C7; | A16-B30-C2;<br>A16-B30-C8; | A16-B30-C3;<br>A16-B30-C9; | A16-B30-C4;<br>A17-B30-C1; | A16-B30-C5;<br>A17-B30-C2; | A16-B30-C6;                |
| A17-B30-C4;                | A10-B30-C8;<br>A17-B30-C5; | A10-B30-C9;<br>A17-B30-C6; | A17-B30-C1;<br>A17-B30-C7; | A17-B30-C2;<br>A17-B30-C8; | A17-B30-C3;<br>A17-B30-C9; |
| A17-B30-C4;<br>A18-B30-C1; | A17-B30-C3;<br>A18-B30-C2; |                            | A17-B30-C7;<br>A18-B30-C4; | A17-B30-C8;<br>A18-B30-C5; |                            |
|                            |                            | A18-B30-C3;                |                            | A19-B30-C3;                | A18-B30-C6;                |
| A18-B30-C7;<br>A19-B30-C4; | A18-B30-C8;                | A18-B30-C9;                | A19-B30-C1;<br>A19-B30-C7; | A19-B30-C2,<br>A19-B30-C8; | A19-B30-C3;                |
| A20-B30-C1;                | A19-B30-C5;<br>A20-B30-C2; | A19-B30-C6;                | A19-B30-C7;<br>A20-B30-C4; | A20-B30-C5;                | A19-B30-C9;<br>A20-B30-C6; |
| A20-B30-C1;<br>A20-B30-C7; | A20-B30-C2,<br>A20-B30-C8; | A20-B30-C3;<br>A20-B30-C9; | A20-B30-C4;<br>A21-B30-C1; | A20-B30-C3;                | A20-B30-C0;<br>A21-B30-C3; |
| A20-B30-C7;<br>A21-B30-C4; | A20-B30-C8;<br>A21-B30-C5; | A20-B30-C9;<br>A21-B30-C6; | A21-B30-C1;<br>A21-B30-C7; | A21-B30-C2,<br>A21-B30-C8; | A21-B30-C3;<br>A21-B30-C9; |
| A21-B30-C4;<br>A22-B30-C1; | A21-B30-C3;<br>A22-B30-C2; | A21-B30-C0;<br>A22-B30-C3; | A21-B30-C7;<br>A22-B30-C4; | A21-B30-C8;<br>A22-B30-C5; | A21-B30-C9;<br>A22-B30-C6; |
| A22-B30-C1;<br>A22-B30-C7; | •                          | •                          |                            | •                          | A23-B30-C3;                |
| •                          | A22-B30-C8;                | A22-B30-C9;                | A23-B30-C1;                | A23-B30-C2;                |                            |
| A23-B30-C4;                | A23-B30-C5;                | A23-B30-C6;                | A23-B30-C7;                | A23-B30-C8;                | A23-B30-C9;                |
| A24-B30-C1;                | A24-B30-C2;                | A24-B30-C3;                | A24-B30-C4;                | A24-B30-C5;                | A24-B30-C6;                |
| A24-B30-C7;                | A24-B30-C8;                | A24-B30-C9;                | A25-B30-C1;                | A25-B30-C2;                | A25-B30-C3;                |
| A25-B30-C4;                | A25-B30-C5;                | A25-B30-C6;                | A25-B30-C7;                | A25-B30-C8;                | A25-B30-C9;                |
| A26-B30-C1;                | A26-B30-C2;                | A26-B30-C3;                | A26-B30-C4;                | A26-B30-C5;                | A26-B30-C6;                |
| A26-B30-C7;                | A26-B30-C8;                | A26-B30-C9;                | A27-B30-C1;                | A27-B30-C2;                | A27-B30-C3;                |
| A27-B30-C4;                | A27-B30-C5;                | A27-B30-C6;                | A27-B30-C7;                | A27-B30-C8;                | A27-B30-C9;                |
| A28-B30-C1;                | A28-B30-C2;                | A28-B30-C3;                | A28-B30-C4;                | A28-B30-C5;                | A28-B30-C6;                |
| A28-B30-C7;                | A28-B30-C8;                | A28-B30-C9;                | A29-B30-C1;                | A29-B30-C2;                | A29-B30-C3;                |
| A29-B30-C4;                | A29-B30-C5;                | A29-B30-C6;                | A29-B30-C7;                | A29-B30-C8;                | A29-B30-C9;                |

| A30-B30-C1;   | A30-B30-C2;                | A30-B30-C3;                | A30-B30-C4;                | A30-B30-C5;                | A30-B30-C6;                |
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| A31-B30-C4;   | A31-B30-C5;                | A31-B30-C6;                | A31-B30-C7;                | A31-B30-C8;                | A31-B30-C9;                |
| A32-B30-C1;   | A32-B30-C2;                | A32-B30-C3;                | A32-B30-C4;                | A32-B30-C5;                | A32-B30-C6;                |
| A32-B30-C7;   | A32-B30-C2;                | A32-B30-C9;                | A33-B30-C1;                | A33-B30-C2;                | A33-B30-C3;                |
| A33-B30-C4;   | A33-B30-C5;                | A33-B30-C6;                | A33-B30-C1;                | A33-B30-C8;                | A33-B30-C9;                |
|               |                            | A34-B30-C3;                | A34-B30-C4;                | A34-B30-C5;                | A34-B30-C6;                |
| A34-B30-C1;   | A34-B30-C2;<br>A34-B30-C8; | A34-B30-C9;                | A35-B30-C1;                | A35-B30-C2;                | A35-B30-C3;                |
| A34-B30-C7;   |                            |                            | A35-B30-C1;                | A35-B30-C2;<br>A35-B30-C8; | A35-B30-C9;                |
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| A36-B30-C1;   | A36-B30-C2;                |                            | A36-B30-C4;                | A37-B30-C3;                | A30-B30-C0;<br>A37-B30-C3; |
| A36-B30-C7;   | A36-B30-C8;                | A36-B30-C9;                | A37-B30-C1;<br>A37-B30-C7; |                            | A37-B30-C3;                |
| A37-B30-C4;   | A37-B30-C5;                | A37-B30-C6;                |                            | A37-B30-C8;<br>A38-B30-C5; |                            |
| A38-B30-C1;   | A38-B30-C2;                | A38-B30-C3;                | A38-B30-C4;                |                            | A38-B30-C6;                |
| A38-B30-C7;   | A38-B30-C8;                | A38-B30-C9;                | A39-B30-C1;                | A39-B30-C2;                | A39-B30-C3;                |
| A39-B30-C4;   | A39-B30-C5;                | A39-B30-C6;                | A39-B30-C7;                | A39-B30-C8;                | A39-B30-C9;                |
| A40-B30-C1;   | A40-B30-C2;                | A40-B30-C3;                | A40-B30-C4;                | A40-B30-C5;                | A40-B30-C6;                |
| A40-B30-C7;   | A40-B30-C8;                | A40-B30-C9;                | A41-B30-C1;                | A41-B30-C2;                | A41-B30-C3;                |
| A41-B30-C4;   | A41-B30-C5;                | A41-B30-C6;                | A41-B30-C7;                | A41-B30-C8;                | A41-B30-C9;                |
| A42-B30-C1;   | A42-B30-C2;                | A42-B30-C3;                | A42-B30-C4;                | A42-B30-C5;                | A42-B30-C6;                |
| A42-B30-C7;   | A42-B30-C8;                | A42-B30-C9;                | A43-B30-C1;                | A43-B30-C2;                | A43-B30-C3;                |
| A43-B30-C4;   | A43-B30-C5;                | A43-B30-C6;                | A43-B30-C7;                | A43-B30-C8;                | A43-B30-C9;                |
| A44-B30-C1;   | A44-B30-C2;                | A44-B30-C3;                | A44-B30-C4;                | A44-B30-C5;                | A44-B30-C6;                |
| A44-B30-C7;   | A44-B30-C8;                | A44-B30-C9;                | A45-B30-C1;                | A45-B30-C2;                | A45-B30-C3;                |
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| A46-B30-C7;   | A46-B30-C8;                | A46-B30-C9;                | A47-B30-C1;                | A47-B30-C2;                | A47-B30-C3;                |
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| A48-B30-C7;   | A48-B30-C8;                | A48-B30-C9;                | A49-B30-C1;                | A49-B30-C2;                | A49-B30-C3;                |
| A49-B30-C4;   | A49-B30-C5;                | A49-B30-C6;                | A49-B30-C7;                | A49-B30-C8;                | A49-B30-C9;                |
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| A62-B30-C7;   | A62-B30-C8;                | A62-B30-C9;                | A63-B30-C1;                | A63-B30-C2;                | A63-B30-C3;                |
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| A64-B30-C7;   | A64-B30-C8;                | A64-B30-C9;                | A65-B30-C1;                | A65-B30-C2;                | A65-B30-C3;                |
| A65-B30-C4;   | A65-B30-C5;                | A65-B30-C6;                | A65-B30-C7;                | A65-B30-C8;                | A65-B30-C9;                |
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| 1100 1550-01, | . 100 00-02,               | .100 230 03,               | 1100 250 04,               | .100 250 05,               |                            |

|             | 1.66 D20 GB | 4% C D20 C0 | A 67 D20 C1 | A 67 D20 C2 | A 67 D20 C2 |
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| A67-B30-C4; | A67-B30-C5; | A67-B30-C6; | A67-B30-C7; | A67-B30-C8; | A67-B30-C9; |
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| A68-B30-C7; | A68-B30-C8; | A68-B30-C9; | A69-B30-C1; | A69-B30-C2; | A69-B30-C3; |
| A69-B30-C4; | A69-B30-C5; | A69-B30-C6; | A69-B30-C7; | A69-B30-C8; | A69-B30-C9; |
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| A70-B30-C7; | A70-B30-C8; | A70-B30-C9; | A71-B30-C1; | A71-B30-C2; | A71-B30-C3; |
| A71-B30-C4; | A71-B30-C5; | A71-B30-C6; | A71-B30-C7; | A71-B30-C8; | A71-B30-C9; |
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| A1-B31-C7;  | A1-B31-C8;  | A1-B31-C9;  | A2-B31-C1;  | A2-B31-C2;  | A2-B31-C3;  |
| A2-B31-C4;  | A2-B31-C5;  | A2-B31-C6;  | A2-B31-C7;  | A2-B31-C8;  | A2-B31-C9;  |
| A3-B31-C1;  | A3-B31-C2;  | A3-B31-C3;  | A3-B31-C4;  | A3-B31-C5;  | A3-B31-C6;  |
| A3-B31-C7;  | A3-B31-C8;  | A3-B31-C9;  | A4-B31-C1;  | A4-B31-C2;  | A4-B31-C3;  |
|             |             | A4-B31-C6;  | A4-B31-C7;  | A4-B31-C8;  | A4-B31-C9;  |
| A4-B31-C4;  | A4-B31-C5;  | ~           |             |             |             |
| A5-B31-C1;  | A5-B31-C2;  | A5-B31-C3;  | A5-B31-C4;  | A5-B31-C5;  | A5-B31-C6;  |
| A5-B31-C7;  | A5-B31-C8;  | A5-B31-C9;  | A6-B31-C1;  | A6-B31-C2;  | A6-B31-C3;  |
| A6-B31-C4;  | A6-B31-C5;  | A6-B31-C6;  | A6-B31-C7;  | A6-B31-C8;  | A6-B31-C9;  |
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| A8-B31-C4;  | A8-B31-C5;  | A8-B31-C6;  | A8-B31-C7;  | A8-B31-C8;  | A8-B31-C9;  |
| A9-B31-C1;  | A9-B31-C2;  | A9-B31-C3;  | A9-B31-C4;  | A9-B31-C5;  | A9-B31-C6;  |
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| A13-B31-C7; | A13-B31-C8; | A13-B31-C9; | A14-B31-C1; | A14-B31-C2; | A14-B31-C3; |
| A14-B31-C4; | A14-B31-C5; | A14-B31-C6; | A14-B31-C7; | A14-B31-C8; | A14-B31-C9; |
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| A15-B31-C7; | A15-B31-C8; | A15-B31-C9; | A16-B31-C1; | A16-B31-C2; | A16-B31-C3; |
| A16-B31-C4; | A16-B31-C5; | A16-B31-C6; | A16-B31-C7; | A16-B31-C8; | A16-B31-C9; |
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| A20-B31-C4; | A20-B31-C5; | A20-B31-C6; | A20-B31-C7; | A20-B31-C8; | A20-B31-C9; |
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| A25-B31-C7; | A25-B31-C8; | A25-B31-C9; | A26-B31-C1; | A26-B31-C2; | A26-B31-C3; |
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| A27-B31-C7; | A27-B31-C8; | A27-B31-C9; | A28-B31-C1; | A28-B31-C2; | A28-B31-C3; |
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| A29-B31-C7; | A29-B31-C8; | A29-B31-C9; | A30-B31-C1; | A30-B31-C2; | A30-B31-C3; |
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|             |             | 201 0,,     | 251 61,     |             | ,           |

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| A33-B31-C7;   | A33-B31-C8; | A33-B31-C9; | A34-B31-C1; | A34-B31-C2; | A34-B31-C3; |
| A34-B31-C4;   | A34-B31-C5; | A34-B31-C6; | A34-B31-C7; | A34-B31-C8; | A34-B31-C9; |
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| A38-B31-C4;   | A38-B31-C5; | A38-B31-C6; | A38-B31-C7; | A38-B31-C8; | A38-B31-C9; |
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| A39-B31-C7;   | A39-B31-C8; | A39-B31-C9; | A40-B31-C1; | A40-B31-C2; | A40-B31-C3; |
| A40-B31-C4;   | A40-B31-C5; | A40-B31-C6; | A40-B31-C7; | A40-B31-C8; | A40-B31-C9; |
| A41-B31-C1;   | A41-B31-C2; | A41-B31-C3; | A41-B31-C4; | A41-B31-C5; | A41-B31-C6; |
| A41-B31-C7;   | A41-B31-C8; | A41-B31-C9; | A42-B31-C1; | A42-B31-C2; | A42-B31-C3; |
| A42-B31-C4;   | A42-B31-C5; | A42-B31-C6; | A42-B31-C7; | A42-B31-C8; | A42-B31-C9; |
| A43-B31-C1;   | A43-B31-C2; | A43-B31-C3; | A43-B31-C4; | A43-B31-C5; | A43-B31-C6; |
| A43-B31-C7;   | A43-B31-C8; | A43-B31-C9; | A44-B31-C1; | A44-B31-C2; | A44-B31-C3; |
| A44-B31-C4;   | A44-B31-C5; | A44-B31-C6; | A44-B31-C7; | A44-B31-C8; | A44-B31-C9; |
| A45-B31-C1;   | A45-B31-C2; | A45-B31-C3; | A45-B31-C4; | A45-B31-C5; | A45-B31-C6; |
| A45-B31-C7;   | A45-B31-C8; | A45-B31-C9; | A46-B31-C1; | A46-B31-C2; | A46-B31-C3; |
| A46-B31-C4;   | A46-B31-C5; | A46-B31-C6; | A46-B31-C7; | A46-B31-C8; | A46-B31-C9; |
| A47-B31-C1;   | A47-B31-C2; | A47-B31-C3; | A47-B31-C4; | A47-B31-C5; | A47-B31-C6; |
| A47-B31-C7;   | A47-B31-C8; | A47-B31-C9; | A48-B31-C1; | A48-B31-C2; | A48-B31-C3; |
| A48-B31-C4;   | A48-B31-C5; | A48-B31-C6; | A48-B31-C7; | A48-B31-C8; | A48-B31-C9; |
| A49-B31-C1;   | A49-B31-C2; | A49-B31-C3; | A49-B31-C4; | A49-B31-C5; | A49-B31-C6; |
| A49-B31-C7;   | A49-B31-C8; | A49-B31-C9; | A50-B31-C1; | A50-B31-C2; | A50-B31-C3; |
| A50-B31-C4;   | A50-B31-C5; | A50-B31-C6; | A50-B31-C7; | A50-B31-C8; | A50-B31-C9; |
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| . A51-B31-C7; | A51-B31-C8; | A51-B31-C9; | A52-B31-C1; | A52-B31-C2; | A52-B31-C3; |
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| A53-B31-C7;   | A53-B31-C8; | A53-B31-C9; | A54-B31-C1; | A54-B31-C2; | A54-B31-C3; |
| A54-B31-C4;   | A54-B31-C5; | A54-B31-C6; | A54-B31-C7; | A54-B31-C8; | A54-B31-C9; |
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| A55-B31-C7;   | A55-B31-C8; | A55-B31-C9; | A56-B31-C1; | A56-B31-C2; | A56-B31-C3; |
| A56-B31-C4;   | A56-B31-C5; | A56-B31-C6; | A56-B31-C7; | A56-B31-C8; | A56-B31-C9; |
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| A57-B31-C7;   | A57-B31-C8; | A57-B31-C9; | A58-B31-C1; | A58-B31-C2; | A58-B31-C3; |
| A58-B31-C4;   | A58-B31-C5; | A58-B31-C6; | A58-B31-C7; | A58-B31-C8; | A58-B31-C9; |
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| A61-B31-C7;   | A61-B31-C8; | A61-B31-C9; | A62-B31-C1; | A62-B31-C2; | A62-B31-C3; |
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| A63-B31-C1;   | A63-B31-C2; | A63-B31-C3; | A63-B31-C4; | A63-B31-C5; | A63-B31-C6; |
| A63-B31-C7;   | A63-B31-C8; | A63-B31-C9; | A64-B31-C1; | A64-B31-C2; | A64-B31-C3; |
| A64-B31-C4;   | A64-B31-C5; | A64-B31-C6; | A64-B31-C7; | A64-B31-C8; | A64-B31-C9; |
| A65-B31-C1;   | A65-B31-C2; | A65-B31-C3; | A65-B31-C4; | A65-B31-C5; | A65-B31-C6; |
| A65-B31-C7;   | A65-B31-C8; | A65-B31-C9; | A66-B31-C1; | A66-B31-C2; | A66-B31-C3; |
| A66-B31-C4;   | A66-B31-C5; | A66-B31-C6; | A66-B31-C7; | A66-B31-C8; | A66-B31-C9; |
| A67-B31-C1;   | A67-B31-C2; | A67-B31-C3; | A67-B31-C4; | A67-B31-C5; | A67-B31-C6; |
| A67-B31-C7;   | A67-B31-C8; | A67-B31-C9; | A68-B31-C1; | A68-B31-C2; | A68-B31-C3; |
| A68-B31-C4;   | A68-B31-C5; | A68-B31-C6; | A68-B31-C7; | A68-B31-C8; | A68-B31-C9; |
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| A69-B31-C1;                | A69-B31-C2;                | A69-B31-C3;                | A69-B31-C4;                | A69-B31-C5;                | A69-B31-C6;                |
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| A69-B31-C7;                | A69-B31-C8;                | A69-B31-C9;                | A70-B31-C1;                | A70-B31-C2;                | A70-B31-C3;                |
| A70-B31-C4;                | A70-B31-C5;                | A70-B31-C6;                | A70-B31-C7;                | A70-B31-C8;                | A70-B31-C9;                |
| A71-B31-C1;                | A71-B31-C2;                | A71-B31-C3;                | A71-B31-C4;                | A71-B31-C5;                | A71-B31-C6;                |
| A71-B31-C7;                | A71-B31-C8;                | A71-B31-C9;                | A1-B32-C1;                 | A1-B32-C2;                 | A1-B32-C3;                 |
| A1-B32-C4;                 | A1-B32-C5;                 | A1-B32-C6;                 | A1-B32-C7;                 | A1-B32-C8;                 | A1-B32-C9;                 |
| A2-B32-C1;                 | A2-B32-C2;                 | A2-B32-C3;                 | A2-B32-C4;                 | A2-B32-C5;                 | A2-B32-C6;                 |
| A2-B32-C7;                 | A2-B32-C8;                 | A2-B32-C9;                 | A3-B32-C1;                 | A3-B32-C2;                 | A3-B32-C3;                 |
| A3-B32-C4;                 | A3-B32-C5;                 | A3-B32-C6;                 | A3-B32-C7;                 | A3-B32-C8;                 | A3-B32-C9;                 |
| A4-B32-C1;                 | A4-B32-C2;                 | A4-B32-C3;                 | A4-B32-C4;                 | A4-B32-C5;                 | A4-B32-C6;                 |
| A4-B32-C7;                 | A4-B32-C8;                 | A4-B32-C9;                 | A5-B32-C1;                 | A5-B32-C2;                 | A5-B32-C3;                 |
| A5-B32-C4;                 | A5-B32-C5;                 | A5-B32-C6;                 | A5-B32-C7;                 | A5-B32-C8;                 | A5-B32-C9;                 |
| A6-B32-C1;                 | A6-B32-C2;                 | A6-B32-C3;                 | A6-B32-C4;                 | A6-B32-C5;                 | A6-B32-C6;                 |
| A6-B32-C7;                 | A6-B32-C8;                 | A6-B32-C9;                 | A7-B32-C1;                 | A7-B32-C2;                 | A7-B32-C3;                 |
| A7-B32-C4;                 | A7-B32-C5;                 | A7-B32-C6;                 | A7-B32-C1;                 | A7-B32-C8;                 | A7-B32-C9;                 |
| A8-B32-C1;                 | A8-B32-C2;                 | A8-B32-C3;                 | A8-B32-C4;                 | A8-B32-C5;                 | A8-B32-C6;                 |
| A8-B32-C7;                 | A8-B32-C8;                 | A8-B32-C9;                 | A9-B32-C1;                 | A9-B32-C2;                 | A9-B32-C3;                 |
| A9-B32-C4;                 | A9-B32-C5;                 | A9-B32-C6;                 | A9-B32-C1;                 | A9-B32-C2;                 | A9-B32-C9;                 |
| A10-B32-C1;                | A10-B32-C2;                | A10-B32-C3;                | A10-B32-C4;                | A10-B32-C5;                | A10-B32-C6;                |
| A10-B32-C7;                | A10-B32-C8;                | A10-B32-C9;                | A11-B32-C1;                | A11-B32-C2;                | A11-B32-C3;                |
| A11-B32-C4;                | A11-B32-C5;                | A11-B32-C6;                | A11-B32-C7;                | A11-B32-C8;                | A11-B32-C9;                |
| A12-B32-C1;                | A12-B32-C3;                | A12-B32-C3;                | A12-B32-C4;                | A12-B32-C5;                | A12-B32-C6;                |
| A12-B32-C1;                | A12-B32-C2;                | A12-B32-C9;                | A13-B32-C1;                | A13-B32-C2;                | A13-B32-C3;                |
| A13-B32-C4;                | A13-B32-C5;                | A13-B32-C6;                | A13-B32-C1;                | A13-B32-C2;                | A13-B32-C9;                |
| A14-B32-C1;                | A14-B32-C2;                | A14-B32-C3;                | A14-B32-C4;                | A14-B32-C5;                | A14-B32-C6;                |
| A14-B32-C7;                | A14-B32-C2;<br>A14-B32-C8; | A14-B32-C9;                | A15-B32-C1;                | A15-B32-C2;                | A15-B32-C3;                |
| A15-B32-C4;                | A15-B32-C5;                | A15-B32-C6;                | A15-B32-C1;<br>A15-B32-C7; | A15-B32-C2;                | A15-B32-C9;                |
| A16-B32-C1;                | A16-B32-C2;                | A16-B32-C3;                | A16-B32-C4;                | A16-B32-C5;                | A16-B32-C6;                |
| A16-B32-C7;                | A16-B32-C2;                | A16-B32-C9;                | A17-B32-C1;                | A17-B32-C2;                | A17-B32-C3;                |
| A17-B32-C4;                | A17-B32-C5;                | A17-B32-C6;                | A17-B32-C1;<br>A17-B32-C7; | A17-B32-C2;<br>A17-B32-C8; | A17-B32-C9;                |
| A18-B32-C1;                | A18-B32-C2;                | A18-B32-C3;                | A18-B32-C4;                | A18-B32-C5;                | A18-B32-C6;                |
| A18-B32-C7;                | A18-B32-C8;                | A18-B32-C9;                | A19-B32-C1;                | A19-B32-C2;                | A19-B32-C3;                |
| A19-B32-C4;                | A19-B32-C5;                | A19-B32-C6;                | A19-B32-C1;                | A19-B32-C8;                | A19-B32-C9;                |
| A20-B32-C1;                | A20-B32-C2;                | A20-B32-C3;                | A20-B32-C4;                | A20-B32-C5;                | A20-B32-C6;                |
| A20-B32-C7;                | A20-B32-C8;                | A20-B32-C9;                | A21-B32-C1;                | A21-B32-C2;                | A21-B32-C3;                |
| A21-B32-C4;                | A21-B32-C5;                | A21-B32-C6;                | A21-B32-C7;                | A21-B32-C8;                | A21-B32-C9;                |
| A22-B32-C1;                | A22-B32-C2;                | A22-B32-C3;                | A22-B32-C4;                | A22-B32-C5;                | A22-B32-C6;                |
| A22-B32-C1;                | A22-B32-C2;                | A22-B32-C9;                | A23-B32-C1;                | A23-B32-C2;                | A23-B32-C3;                |
| A23-B32-C4;                | A23-B32-C5;                | A23-B32-C6;                | A23-B32-C7;                | A23-B32-C8;                | A23-B32-C9;                |
| A24-B32-C1;                | A24-B32-C2;                | A24-B32-C3;                | A24-B32-C4;                | A24-B32-C5;                | A24-B32-C6;                |
| A24-B32-C7;                | A24-B32-C8;                | A24-B32-C9;                | A25-B32-C1;                | A25-B32-C2;                | A25-B32-C3;                |
| A25-B32-C4;                | A25-B32-C5;                | A25-B32-C6;                | A25-B32-C7;                | A25-B32-C8;                | A25-B32-C9;                |
| A26-B32-C1;                | A26-B32-C2;                | A26-B32-C3;                | A26-B32-C4;                | A26-B32-C5;                | A26-B32-C6;                |
| A26-B32-C7;                | A26-B32-C8;                | A26-B32-C9;                | A27-B32-C1;                | A27-B32-C2;                | A27-B32-C3;                |
| A27-B32-C4;                | A27-B32-C5;                | A27-B32-C6;                | A27-B32-C7;                | A27-B32-C8;                | A27-B32-C9;                |
| A28-B32-C1;                | A28-B32-C2;                | A28-B32-C3;                | A28-B32-C4;                | A28-B32-C5;                | A28-B32-C6;                |
| A28-B32-C7;                | A28-B32-C8;                | A28-B32-C9;                | A29-B32-C1;                | A29-B32-C2;                | A29-B32-C3;                |
| A29-B32-C4;                | A29-B32-C5;                | A29-B32-C6;                | A29-B32-C7;                | A29-B32-C8;                | A29-B32-C9;                |
| A30-B32-C1;                | A30-B32-C3;                | A30-B32-C3;                | A30-B32-C4;                | A30-B32-C5;                | A30-B32-C6;                |
| A30-B32-C1;<br>A30-B32-C7; | A30-B32-C2,<br>A30-B32-C8; | A30-B32-C3;<br>A30-B32-C9; | A30-B32-C4;<br>A31-B32-C1; | A30-B32-C3;                | A31-B32-C3;                |
| A31-B32-C4;                | A31-B32-C5;                | A30-B32-C9;<br>A31-B32-C6; | A31-B32-C1;<br>A31-B32-C7; | A31-B32-C2;                | A31-B32-C9;                |
| A31-B32-C4;<br>A32-B32-C1; | A31-B32-C3;<br>A32-B32-C2; | A31-B32-C0,<br>A32-B32-C3; | A31-B32-C7;<br>A32-B32-C4; | A31-B32-C8;<br>A32-B32-C5; | A31-B32-C9;<br>A32-B32-C6; |
| A32-B32-C1;<br>A32-B32-C7; | A32-B32-C2,<br>A32-B32-C8; | A32-B32-C3,<br>A32-B32-C9; | A32-B32-C4;<br>A33-B32-C1; | A32-B32-C3;                | A32-B32-C0,<br>A33-B32-C3; |
| A33-B32-C4;                | A32-B32-C8;<br>A33-B32-C5; | A32-B32-C9;<br>A33-B32-C6; | A33-B32-C1;<br>A33-B32-C7; | A33-B32-C2;                | A33-B32-C9;                |
| A34-B32-C1;                | A34-B32-C3;                | A34-B32-C3;                | A34-B32-C4;                | A34-B32-C5;                | A34-B32-C6;                |
| 1137-D32-C1,               | 1137-132-02,               | 1134-132-03,               | 1157-1556-07,              | 1137-D32-C3,               | 113 <del>4</del> -132-00,  |

| A34-B32-C7; | A34-B32-C8; | A34-B32-C9;                | A35-B32-C1;                | A35-B32-C2;                | A35-B32-C3; |
|-------------|-------------|----------------------------|----------------------------|----------------------------|-------------|
|             |             |                            |                            | A35-B32-C8;                | A35-B32-C9; |
| A35-B32-C4; | A35-B32-C5; | A35-B32-C6;                | A35-B32-C7;                |                            |             |
| A36-B32-C1; | A36-B32-C2; | A36-B32-C3;                | A36-B32-C4;                | A36-B32-C5;                | A36-B32-C6; |
| A36-B32-C7; | A36-B32-C8; | A36-B32-C9;                | A37-B32-C1;                | A37-B32-C2;                | A37-B32-C3; |
| A37-B32-C4; | A37-B32-C5; | A37-B32-C6;                | A37-B32-C7;                | A37-B32-C8;                | A37-B32-C9; |
| A38-B32-C1; | A38-B32-C2; | A38-B32-C3;                | A38-B32-C4;                | A38-B32-C5;                | A38-B32-C6; |
| A38-B32-C7; | A38-B32-C8; | A38-B32-C9;                | A39-B32-C1;                | A39-B32-C2;                | A39-B32-C3; |
| A39-B32-C4; | A39-B32-C5; | A39-B32-C6;                | A39-B32-C7;                | A39-B32-C8;                | A39-B32-C9; |
| A40-B32-C1; | A40-B32-C2; | A40-B32-C3;                | A40-B32-C4;                | A40-B32-C5;                | A40-B32-C6; |
| A40-B32-C7; | A40-B32-C8; | A40-B32-C9;                | A41-B32-C1;                | A41-B32-C2;                | A41-B32-C3; |
| A41-B32-C4; | A41-B32-C5; | A41-B32-C6;                | A41-B32-C7;                | A41-B32-C8;                | A41-B32-C9; |
| A42-B32-C1; | A42-B32-C2; | A42-B32-C3;                | A42-B32-C4;                | A42-B32-C5;                | A42-B32-C6; |
| A42-B32-C7; | A42-B32-C8; | A42-B32-C9;                | A43-B32-C1;                | A43-B32-C2;                | A43-B32-C3; |
| A43-B32-C4; | A43-B32-C5; | A43-B32-C6;                | A43-B32-C7;                | A43-B32-C8;                | A43-B32-C9; |
| A44-B32-C1; | A44-B32-C2; | A44-B32-C3;                | A44-B32-C4;                | A44-B32-C5;                | A44-B32-C6; |
| A44-B32-C7; | A44-B32-C8; | A44-B32-C9;                | A45-B32-C1;                | A45-B32-C2;                | A45-B32-C3; |
| A45-B32-C4; | A45-B32-C5; | A45-B32-C6;                | A45-B32-C7;                | A45-B32-C8;                | A45-B32-C9; |
| A46-B32-C1; | A46-B32-C2; | A46-B32-C3;                | A46-B32-C4;                | A46-B32-C5;                | A46-B32-C6; |
| A46-B32-C7; | A46-B32-C8; | A46-B32-C9;                | A47-B32-C1;                | A47-B32-C2;                | A47-B32-C3; |
| A47-B32-C4; | A47-B32-C5; | A47-B32-C6;                | A47-B32-C1;<br>A47-B32-C7; | A47-B32-C2;                | A47-B32-C9; |
| A48-B32-C1; |             | A47-B32-C0;<br>A48-B32-C3; | A48-B32-C4;                | A47-B32-C6;<br>A48-B32-C5; | A48-B32-C6; |
| •           | A48-B32-C2; |                            |                            |                            |             |
| A48-B32-C7; | A48-B32-C8; | A48-B32-C9;                | A49-B32-C1;                | A49-B32-C2;                | A49-B32-C3; |
| A49-B32-C4; | A49-B32-C5; | A49-B32-C6;                | A49-B32-C7;                | A49-B32-C8;                | A49-B32-C9; |
| A50-B32-C1; | A50-B32-C2; | A50-B32-C3;                | A50-B32-C4;                | A50-B32-C5;                | A50-B32-C6; |
| A50-B32-C7; | A50-B32-C8; | A50-B32-C9;                | A51-B32-C1;                | A51-B32-C2;                | A51-B32-C3; |
| A51-B32-C4; | A51-B32-C5; | A51-B32-C6;                | A51-B32-C7;                | A51-B32-C8;                | A51-B32-C9; |
| A52-B32-C1; | A52-B32-C2; | A52-B32-C3;                | A52-B32-C4;                | A52-B32-C5;                | A52-B32-C6; |
| A52-B32-C7; | A52-B32-C8; | A52-B32-C9;                | A53-B32-C1;                | A53-B32-C2;                | A53-B32-C3; |
| A53-B32-C4; | A53-B32-C5; | A53-B32-C6;                | A53-B32-C7;                | A53-B32-C8;                | A53-B32-C9; |
| A54-B32-C1; | A54-B32-C2; | A54-B32-C3;                | A54-B32-C4;                | A54-B32-C5;                | A54-B32-C6; |
| A54-B32-C7; | A54-B32-C8; | A54-B32-C9;                | A55-B32-C1;                | A55-B32-C2;                | A55-B32-C3; |
| A55-B32-C4; | A55-B32-C5; | A55-B32-C6;                | A55-B32-C7;                | A55-B32-C8;                | A55-B32-C9; |
| A56-B32-C1; | A56-B32-C2; | A56-B32-C3;                | A56-B32-C4;                | A56-B32-C5;                | A56-B32-C6; |
| A56-B32-C7; | A56-B32-C8; | A56-B32-C9;                | A57-B32-C1;                | A57-B32-C2;                | A57-B32-C3; |
| A57-B32-C4; | A57-B32-C5; | A57-B32-C6;                | A57-B32-C7;                | A57-B32-C8;                | A57-B32-C9; |
| A58-B32-C1; | A58-B32-C2; | A58-B32-C3;                | A58-B32-C4;                | A58-B32-C5;                | A58-B32-C6; |
| A58-B32-C7; | A58-B32-C8; | A58-B32-C9;                | A59-B32-C1;                | A59-B32-C2;                | A59-B32-C3; |
| A59-B32-C4; | A59-B32-C5; | A59-B32-C6;                | A59-B32-C7;                | A59-B32-C8;                | A59-B32-C9: |
| A60-B32-C1; | A60-B32-C2; | A60-B32-C3;                | A60-B32-C4;                | A60-B32-C5;                | A60-B32-C6; |
| A60-B32-C7; | A60-B32-C8; | A60-B32-C9;                | A61-B32-C1;                | A61-B32-C2;                | A61-B32-C3; |
| A61-B32-C4; | A61-B32-C5; | A61-B32-C6;                | A61-B32-C7;                | A61-B32-C8;                | A61-B32-C9; |
| A62-B32-C1; | A62-B32-C2; | A62-B32-C3;                | A62-B32-C4;                | A62-B32-C5;                | A62-B32-C6; |
| A62-B32-C7; | A62-B32-C2; | A62-B32-C9;                | A63-B32-C1;                | A63-B32-C2;                | A63-B32-C3; |
|             |             | •                          |                            | A63-B32-C2;                | A63-B32-C9; |
| A63-B32-C4; | A63-B32-C5; | A63-B32-C6;                | A63-B32-C7;                | •                          |             |
| A64-B32-C1; | A64-B32-C2; | A64-B32-C3;                | A64-B32-C4;                | A64-B32-C5;                | A64-B32-C6; |
| A64-B32-C7; | A64-B32-C8; | A64-B32-C9;                | A65-B32-C1;                | A65-B32-C2;                | A65-B32-C3; |
| A65-B32-C4; | A65-B32-C5; | A65-B32-C6;                | A65-B32-C7;                | A65-B32-C8;                | A65-B32-C9; |
| A66-B32-C1; | A66-B32-C2; | A66-B32-C3;                | A66-B32-C4;                | A66-B32-C5;                | A66-B32-C6; |
| A66-B32-C7; | A66-B32-C8; | A66-B32-C9;                | A67-B32-C1;                | A67-B32-C2;                | A67-B32-C3; |
| A67-B32-C4; | A67-B32-C5; | A67-B32-C6;                | A67-B32-C7;                | A67-B32-C8;                | A67-B32-C9; |
| A68-B32-C1; | A68-B32-C2; | A68-B32-C3;                | A68-B32-C4;                | A68-B32-C5;                | A68-B32-C6; |
| A68-B32-C7; | A68-B32-C8; | A68-B32-C9;                | A69-B32-C1;                | A69-B32-C2;                | A69-B32-C3; |
| A69-B32-C4; | A69-B32-C5; | A69-B32-C6;                | A69-B32-C7;                | A69-B32-C8;                | A69-B32-C9; |
| A70-B32-C1; | A70-B32-C2; | A70-B32-C3;                | A70-B32-C4;                | A70-B32-C5;                | A70-B32-C6; |
| A70-B32-C7; | A70-B32-C8; | A70-B32-C9;                | A71-B32-C1;                | A71-B32-C2;                | A71-B32-C3; |
|             |             |                            |                            |                            |             |

| A71 D22 C4. | A71 D22 C5.                           | A71-B32-C6;                | A71 D22 C7.                | A71 D22 CQ.                | A71 D22 CO. |
|-------------|---------------------------------------|----------------------------|----------------------------|----------------------------|-------------|
| A71-B32-C4; | A71-B32-C5;                           |                            | A71-B32-C7;                | A71-B32-C8;                | A71-B32-C9; |
| A1-B33-C1;  | A1-B33-C2;                            | A1-B33-C3;                 | A1-B33-C4;                 | A1-B33-C5;                 | AI-B33-C6;  |
| A1-B33-C7;  | A1-B33-C8;                            | A1-B33-C9;                 | A2-B33-C1;                 | A2-B33-C2;                 | A2-B33-C3;  |
| A2-B33-C4;  | A2-B33-C5;                            | A2-B33-C6;                 | A2-B33-C7;                 | A2-B33-C8;                 | A2-B33-C9;  |
| A3-B33-C1;  | A3-B33-C2;                            | A3-B33-C3;                 | A3-B33-C4;                 | A3-B33-C5;                 | A3-B33-C6;  |
| A3-B33-C7;  | A3-B33-C8;                            | A3-B33-C9;                 | A4-B33-C1;                 | A4-B33-C2;                 | A4-B33-C3;  |
| A4-B33-C4;  | A4-B33-C5;                            | A4-B33-C6;                 | A4-B33-C7;                 | A4-B33-C8;                 | A4-B33-C9;  |
| A5-B33-C1;  | A5-B33-C2;                            | A5-B33-C3;                 | A5-B33-C4;                 | A5-B33-C5;                 | A5-B33-C6;  |
| A5-B33-C7;  | A5-B33-C8;                            | A5-B33-C9;                 | A6-B33-C1;                 | A6-B33-C2;                 | A6-B33-C3;  |
| A6-B33-C4;  | A6-B33-C5;                            | A6-B33-C6;                 | A6-B33-C7;                 | A6-B33-C8;                 | A6-B33-C9;  |
| A7-B33-C1;  | A7-B33-C2;                            | A7-B33-C3;                 | A7-B33-C4;                 | A7-B33-C5;                 | A7-B33-C6;  |
| A7-B33-C7;  | A7-B33-C8;                            | A7-B33-C9;                 | A8-B33-C1;                 | A8-B33-C2;                 | A8-B33-C3;  |
| A8-B33-C4;  | A8-B33-C5;                            | A8-B33-C6;                 | A8-B33-C7;                 | A8-B33-C8;                 | A8-B33-C9;  |
| A9-B33-C1;  | A9-B33-C2;                            | A9-B33-C3;                 | A9-B33-C4;                 | A9-B33-C5;                 | A9-B33-C6;  |
| A9-B33-C7;  | A9-B33-C8;                            | A9-B33-C9;                 | A10-B33-C1;                | A10-B33-C2;                | A10-B33-C3; |
| A10-B33-C4; | A10-B33-C5;                           | A10-B33-C6;                | A10-B33-C7;                | A10-B33-C8;                | A10-B33-C9; |
| A11-B33-C1; | A11-B33-C2;                           | A11-B33-C3;                | A11-B33-C4;                | A11-B33-C5;                | A11-B33-C6; |
| A11-B33-C7; | A11-B33-C8;                           | A11-B33-C9;                | A12-B33-C1;                | A12-B33-C2;                | A12-B33-C3; |
| A12-B33-C4; | A12-B33-C5;                           | A12-B33-C6;                | A12-B33-C7;                | A12-B33-C8;                | A12-B33-C9; |
| A13-B33-C1; | A13-B33-C2;                           | A13-B33-C3;                | A13-B33-C4;                | A13-B33-C5;                | A13-B33-C6; |
| A13-B33-C7; | A13-B33-C8;                           | A13-B33-C9;                | A14-B33-C1;                | A14-B33-C2;                | A14-B33-C3; |
| A14-B33-C4; | A14-B33-C5;                           | A14-B33-C6;                | A14-B33-C1;                | A14-B33-C2;                |             |
|             |                                       |                            |                            |                            | A14-B33-C9; |
| A15-B33-C1; | A15-B33-C2;                           | A15-B33-C3;                | A15-B33-C4;                | A15-B33-C5;                | A15-B33-C6; |
| A15-B33-C7; | A15-B33-C8;                           | A15-B33-C9;                | A16-B33-C1;                | A16-B33-C2;                | A16-B33-C3; |
| A16-B33-C4; | A16-B33-C5;                           | A16-B33-C6;                | A16-B33-C7;                | A16-B33-C8;                | A16-B33-C9; |
| A17-B33-C1; | A17-B33-C2;                           | A17-B33-C3;                | A17-B33-C4;                | A17-B33-C5;                | A17-B33-C6; |
| A17-B33-C7; | A17-B33-C8;                           | A17-B33-C9;                | A18-B33-C1;                | A18-B33-C2;                | A18-B33-C3; |
| A18-B33-C4; | A18-B33-C5;                           | A18-B33-C6;                | A18-B33-C7;                | A18-B33-C8;                | A18-B33-C9; |
| A19-B33-C1; | A19-B33-C2;                           | A19-B33-C3;                | A19-B33-C4;                | A19-B33-C5;                | A19-B33-C6; |
| A19-B33-C7; | A19-B33-C8;                           | A19-B33-C9;                | A20-B33-C1;                | A20-B33-C2;                | A20-B33-C3; |
| A20-B33-C4; | A20-B33-C5;                           | A20-B33-C6;                | A20-B33-C7;                | A20-B33-C8;                | A20-B33-C9; |
| A21-B33-C1; | A21-B33-C2;                           | A21-B33-C3;                | A21-B33-C4;                | A21-B33-C5;                | A21-B33-C6; |
| A21-B33-C7; | A21-B33-C8;                           | A21-B33-C9;                | A22-B33-C1;                | A22-B33-C2;                | A22-B33-C3; |
| A22-B33-C4; | A22-B33-C5;                           | A22-B33-C6;                | A22-B33-C7;                | A22-B33-C8;                | A22-B33-C9; |
| A23-B33-C1; | A23-B33-C2;                           | A23-B33-C3;                | A23-B33-C4;                | A23-B33-C5;                | A23-B33-C6; |
| A23-B33-C7; | A23-B33-C8;                           | A23-B33-C9;                | A24-B33-C1;                | A24-B33-C2;                | A24-B33-C3; |
| A24-B33-C4; | A24-B33-C5;                           | A24-B33-C6;                | A24-B33-C7;                | A24-B33-C8;                | A24-B33-C9; |
| A25-B33-C1; | A25-B33-C2;                           | A25-B33-C3;                | A25-B33-C4;                | A25-B33-C5;                | A25-B33-C6; |
| A25-B33-C7; | A25-B33-C8;                           | A25-B33-C9;                | A26-B33-C1;                | A26-B33-C2;                | A26-B33-C3; |
| A26-B33-C4; | A26-B33-C5;                           | A26-B33-C6;                | A26-B33-C7;                | A26-B33-C8;                | A26-B33-C9; |
| A27-B33-C1; | A27-B33-C2;                           | A27-B33-C3;                | A27-B33-C4;                | A27-B33-C5;                | A27-B33-C6; |
| A27-B33-C7; | A27-B33-C8;                           | A27-B33-C9;                | A28-B33-C1;                | A28-B33-C2;                | A28-B33-C3; |
| A28-B33-C4; | A28-B33-C5;                           | A28-B33-C6;                | A28-B33-C7;                | A28-B33-C8;                | A28-B33-C9; |
| A29-B33-C1; | A29-B33-C2;                           | A29-B33-C3;                | A29-B33-C4;                | A29-B33-C5;                | A29-B33-C6; |
| A29-B33-C7; | A29-B33-C8;                           | A29-B33-C9;                | A30-B33-C1;                | A30-B33-C2;                | A30-B33-C3; |
| A30-B33-C4; | A30-B33-C5;                           | A30-B33-C6;                | A30-B33-C7;                | A30-B33-C8;                | A30-B33-C9; |
| A31-B33-C1; | A31-B33-C2;                           | A31-B33-C3;                | A31-B33-C4;                | A31-B33-C5;                | A31-B33-C6; |
| A31-B33-C7; | A31-B33-C8;                           | A31-B33-C9;                | A32-B33-C1;                | A32-B33-C2;                | A32-B33-C3; |
| A32-B33-C4; | A32-B33-C5;                           | A32-B33-C6;                | A32-B33-C1;                | A32-B33-C2;<br>A32-B33-C8; | A32-B33-C9; |
| A33-B33-C1; | A32-B33-C3;                           | A32-B33-C0,<br>A33-B33-C3; | A32-B33-C7;<br>A33-B33-C4; | A33-B33-C5;                |             |
| •           | · · · · · · · · · · · · · · · · · · · | A33-B33-C3;<br>A33-B33-C9; | A34-B33-C1;                |                            | A33-B33-C6; |
| A33-B33-C7; | A33-B33-C8;                           |                            |                            | A34-B33-C2;                | A34-B33-C3; |
| A34-B33-C4; | A34-B33-C5;                           | A34-B33-C6;                | A34-B33-C7;                | A34-B33-C8;                | A34-B33-C9; |
| A35-B33-C1; | A35-B33-C2;                           | A35-B33-C3;                | A35-B33-C4;                | A35-B33-C5;                | A35-B33-C6; |
| A35-B33-C7; | A35-B33-C8;                           | A35-B33-C9;                | A36-B33-C1;                | A36-B33-C2;                | A36-B33-C3; |
| A36-B33-C4; | A36-B33-C5;                           | A36-B33-C6;                | A36-B33-C7;                | A36-B33-C8;                | A36-B33-C9; |

| A37-B33-C1; | A37-B33-C2; | A37-B33-C3; | A37-B33-C4; | A37-B33-C5; | A37-B33-C6; |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A37-B33-C7; | A37-B33-C8; | A37-B33-C9; | A38-B33-C1; | A38-B33-C2; | A38-B33-C3; |
| A38-B33-C4; | A38-B33-C5; | A38-B33-C6; | A38-B33-C7; | A38-B33-C8; | A38-B33-C9; |
| A39-B33-C1; | A39-B33-C2; | A39-B33-C3; | A39-B33-C4; | A39-B33-C5; | A39-B33-C6; |
| A39-B33-C7; | A39-B33-C8; | A39-B33-C9; | A40-B33-C1; | A40-B33-C2; | A40-B33-C3; |
| A40-B33-C4; | A40-B33-C5; | A40-B33-C6; | A40-B33-C7; | A40-B33-C8; | A40-B33-C9; |
| A41-B33-C1; | A41-B33-C2; | A41-B33-C3; | A41-B33-C4; | A41-B33-C5; | A41-B33-C6; |
| A41-B33-C7; | A41-B33-C8; | A41-B33-C9; | A42-B33-C1; | A42-B33-C2; | A42-B33-C3; |
| A42-B33-C4; | A42-B33-C5; | A42-B33-C6; | A42-B33-C7; | A42-B33-C8; | A42-B33-C9; |
| A43-B33-C1; | A43-B33-C2; | A43-B33-C3; | A43-B33-C4; | A43-B33-C5; | A43-B33-C6; |
| A43-B33-C7; | A43-B33-C8; | A43-B33-C9; | A44-B33-C1; | A44-B33-C2; | A44-B33-C3; |
| A44-B33-C4; | A44-B33-C5; | A44-B33-C6; | A44-B33-C7; | A44-B33-C8; | A44-B33-C9; |
| A45-B33-C1; | A45-B33-C2; | A45-B33-C3; | A45-B33-C4; | A45-B33-C5; | A45-B33-C6; |
| A45-B33-C7; | A45-B33-C8; | A45-B33-C9; | A46-B33-C1; | A46-B33-C2; | A46-B33-C3; |
| A46-B33-C4; | A46-B33-C5; | A46-B33-C6; | A46-B33-C7; | A46-B33-C8; | A46-B33-C9; |
| A47-B33-C1; | A47-B33-C2; | A47-B33-C3; | A47-B33-C4; | A47-B33-C5; | A47-B33-C6; |
| A47-B33-C7; | A47-B33-C8; | A47-B33-C9; | A48-B33-C1; | A48-B33-C2; | A48-B33-C3; |
| A48-B33-C4; | A48-B33-C5; | A48-B33-C6; | A48-B33-C7; | A48-B33-C8; | A48-B33-C9; |
| A49-B33-C1; | A49-B33-C2; | A49-B33-C3; | A49-B33-C4; | A49-B33-C5; | A49-B33-C6; |
| A49-B33-C7; | A49-B33-C8; | A49-B33-C9; | A50-B33-C1; | A50-B33-C2; | A50-B33-C3; |
| A50-B33-C4; | A50-B33-C5; | A50-B33-C6; | A50-B33-C7; | A50-B33-C8; | A50-B33-C9; |
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| A51-B33-C7; | A51-B33-C8; | A51-B33-C9; | A52-B33-C1; | A52-B33-C2; | A52-B33-C3; |
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| A68-B34-C7;A68-B34-C8;A68-B34-C9;A69-B34-C1;A69-B34-C2;A69-B34-C3;A69-B34-C4;A69-B34-C5;A69-B34-C6;A69-B34-C7;A69-B34-C8;A69-B34-C9;A70-B34-C1;A70-B34-C2;A70-B34-C3;A70-B34-C4;A70-B34-C5;A70-B34-C6;A70-B34-C7;A70-B34-C8;A70-B34-C9;A71-B34-C1;A71-B34-C2;A71-B34-C3;A71-B34-C4;A71-B34-C5;A71-B34-C6;A71-B34-C7;A71-B34-C8;A71-B34-C9;A1-B35-C1;A1-B35-C2;A1-B35-C3;A1-B35-C4;A1-B35-C5;A1-B35-C6;A1-B35-C4;A1-B35-C5;A1-B35-C6;A2-B35-C1;A2-B35-C2;A2-B35-C3;A2-B35-C4;A2-B35-C5;A2-B35-C6;A2-B35-C7;A2-B35-C5;A3-B35-C6;A3-B35-C7;A3-B35-C8;A3-B35-C9;A4-B35-C1;A4-B35-C2;A4-B35-C3;   | · · · · · · · · · · · · · · · · · · · |             |             |             |               |                                       |
| A69-B34-C4; A69-B34-C5; A69-B34-C6; A69-B34-C7; A69-B34-C8; A69-B34-C9; A70-B34-C1; A70-B34-C2; A70-B34-C3; A70-B34-C4; A70-B34-C5; A70-B34-C6; A70-B34-C7; A70-B34-C8; A70-B34-C9; A71-B34-C1; A71-B34-C2; A71-B34-C3; A71-B34-C4; A71-B34-C5; A71-B34-C6; A71-B34-C7; A71-B34-C8; A71-B35-C1; A1-B35-C2; A1-B35-C3; A1-B35-C4; A1-B35-C5; A1-B35-C6; A1-B35-C7; A1-B35-C5; A1-B35-C6; A2-B35-C1; A2-B35-C2; A2-B35-C3; A2-B35-C1; A3-B35-C2; A3-B35-C3; A4-B35-C3; A4-B35-C3;  |                                       |             | •           |             | •             |                                       |
| A70-B34-C1; A70-B34-C2; A70-B34-C3; A70-B34-C4; A70-B34-C5; A70-B34-C6; A70-B34-C7; A70-B34-C8; A70-B34-C9; A71-B34-C1; A71-B34-C2; A71-B34-C3; A71-B34-C4; A71-B34-C5; A71-B34-C6; A71-B34-C7; A71-B34-C8; A71-B34-C9; A1-B35-C1; A1-B35-C2; A1-B35-C3; A1-B35-C4; A1-B35-C5; A1-B35-C6; A1-B35-C7; A1-B35-C5; A2-B35-C6; A2-B35-C1; A2-B35-C2; A2-B35-C3; A2-B35-C1; A3-B35-C2; A3-B35-C3; A3-B | •                                     |             |             |             |               |                                       |
| A70-B34-C7; A70-B34-C8; A70-B34-C9; A71-B34-C1; A71-B34-C2; A71-B34-C3; A71-B34-C4; A71-B34-C5; A71-B34-C6; A71-B34-C7; A71-B34-C8; A71-B34-C9; A1-B35-C1; A1-B35-C2; A1-B35-C3; A1-B35-C4; A1-B35-C5; A1-B35-C6; A1-B35-C7; A1-B35-C8; A1-B35-C9; A2-B35-C1; A2-B35-C2; A2-B35-C3; A2-B35-C1; A2-B35-C3; A2-B35-C1; A3-B35-C2; A3-B35-C3; | •                                     |             |             |             |               |                                       |
| A71-B34-C4; A71-B34-C5; A71-B34-C6; A71-B34-C7; A71-B34-C8; A71-B34-C9; A1-B35-C1; A1-B35-C2; A1-B35-C3; A1-B35-C4; A1-B35-C5; A1-B35-C6; A1-B35-C7; A1-B35-C8; A1-B35-C9; A2-B35-C1; A2-B35-C2; A2-B35-C3; A2-B35-C4; A2-B35-C5; A2-B35-C6; A2-B35-C7; A2-B35-C8; A2-B35-C9; A3-B35-C1; A3-B35-C2; A3-B35-C3; A3-B3 |                                       |             | ,           |             |               | ·                                     |
| A1-B35-C1; A1-B35-C2; A1-B35-C3; A1-B35-C4; A1-B35-C5; A1-B35-C6; A1-B35-C7; A1-B35-C8; A1-B35-C9; A2-B35-C1; A2-B35-C2; A2-B35-C3; A2-B35-C4; A2-B35-C5; A2-B35-C6; A2-B35-C7; A2-B35-C8; A2-B35-C9; A3-B35-C1; A3-B35-C2; A3-B35-C3; A3-B35-C4; A3-B35-C5; A3-B35-C6; A3-B35-C7; A3-B35-C8; A3-B35-C9; A4-B35-C1; A4-B35-C2; A4-B35-C3;  |                                       |             | •           |             | •             | ,                                     |
| A1-B35-C7; A1-B35-C8; A1-B35-C9; A2-B35-C1; A2-B35-C2; A2-B35-C3; A2-B35-C4; A2-B35-C5; A2-B35-C6; A2-B35-C7; A2-B35-C8; A2-B35-C9; A3-B35-C1; A3-B35-C2; A3-B35-C3; A3-B35-C4; A3-B35-C5; A3-B35-C6; A3-B35-C7; A3-B35-C8; A3-B35-C9; A4-B35-C1; A4-B35-C2; A4-B35-C3;  | •                                     |             | •           | •           | •             | •                                     |
| A2-B35-C4; A2-B35-C5; A2-B35-C6; A2-B35-C7; A2-B35-C8; A2-B35-C9; A3-B35-C1; A3-B35-C2; A3-B35-C3; A3-B35-C4; A3-B35-C5; A3-B35-C6; A3-B35-C7; A3-B35-C8; A3-B35-C9; A4-B35-C1; A4-B35-C2; A4-B35-C3;  | A1-B35-C1;                            |             | A1-B35-C3;  |             |               | A1-B35-C6;                            |
| A3-B35-C1; A3-B35-C2; A3-B35-C3; A3-B35-C4; A3-B35-C5; A3-B35-C6; A3-B35-C7; A3-B35-C8; A4-B35-C1; A4-B35-C2; A4-B35-C3;   |                                       |             | A1-B35-C9;  | A2-B35-C1;  | •             |                                       |
| A3-B35-C7; A3-B35-C8; A3-B35-C9; A4-B35-C1; A4-B35-C2; A4-B35-C3;  |                                       | A2-B35-C5;  | A2-B35-C6;  | A2-B35-C7;  | A2-B35-C8;    | A2-B35-C9;                            |
|  | A3-B35-C1;                            | A3-B35-C2;  | A3-B35-C3;  |             |               |                                       |
| A4-B35-C4; A4-B35-C5; A4-B35-C6; A4-B35-C7; A4-B35-C8; A4-B35-C9;  | A3-B35-C7;                            | A3-B35-C8;  | A3-B35-C9;  | A4-B35-C1;  | A4-B35-C2;    | A4-B35-C3;                            |
|  | A4-B35-C4;                            | A4-B35-C5;  | A4-B35-C6;  | A4-B35-C7;  | A4-B35-C8;    | A4-B35-C9;                            |

| A5-B35-C1;  | A5-B35-C2;  | A5-B35-C3;  | A5-B35-C4;  | A5-B35-C5;  | A5-B35-C6;  |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A5-B35-C7;  | A5-B35-C8;  | A5-B35-C9;  | A6-B35-C1;  | A6-B35-C2;  | A6-B35-C3;  |
| A6-B35-C4;  | A6-B35-C5;  | A6-B35-C6;  | A6-B35-C7;  | A6-B35-C8;  | A6-B35-C9;  |
| A7-B35-C1;  | A7-B35-C2;  | A7-B35-C3;  | A7-B35-C4;  | A7-B35-C5;  | A7-B35-C6;  |
| A7-B35-C7;  | A7-B35-C8;  | A7-B35-C9;  | A8-B35-C1;  | A8-B35-C2;  | A8-B35-C3;  |
| A8-B35-C4;  | A8-B35-C5;  | A8-B35-C6;  | A8-B35-C7;  | A8-B35-C8;  | A8-B35-C9;  |
| A9-B35-C1;  | A9-B35-C2;  | A9-B35-C3;  | A9-B35-C4;  | A9-B35-C5;  | A9-B35-C6;  |
| A9-B35-C7;  | A9-B35-C8;  | A9-B35-C9;  | A10-B35-C1; | A10-B35-C2; | A10-B35-C3; |
| A10-B35-C4; | A10-B35-C5; | A10-B35-C6; | A10-B35-C7; | A10-B35-C8; | A10-B35-C9; |
| A11-B35-C1; | A11-B35-C2; | A11-B35-C3; | A11-B35-C4; | A11-B35-C5; | A11-B35-C6; |
| A11-B35-C7; | A11-B35-C8; | A11-B35-C9; | A12-B35-C1; | A12-B35-C2; | A12-B35-C3; |
| A12-B35-C4; | A12-B35-C5; | A12-B35-C6; | A12-B35-C7; | A12-B35-C8; | A12-B35-C9; |
| A13-B35-C1; | A13-B35-C2; | A13-B35-C3; | A13-B35-C4; | A13-B35-C5; | A13-B35-C6; |
| A13-B35-C7; | A13-B35-C8; | A13-B35-C9; | A14-B35-C1; | A14-B35-C2; | A14-B35-C3; |
| A14-B35-C4; | A14-B35-C5; | A14-B35-C6; | A14-B35-C7; | A14-B35-C8; | A14-B35-C9; |
| A15-B35-C1; | A15-B35-C2; | A15-B35-C3; | A15-B35-C4; | A15-B35-C5; | A15-B35-C6; |
| A15-B35-C7; | A15-B35-C8; | A15-B35-C9; | A16-B35-C1; | A16-B35-C2; | A16-B35-C3; |
| A16-B35-C4; | A16-B35-C5; | A16-B35-C6; | A16-B35-C7; | A16-B35-C8; | A16-B35-C9; |
| A17-B35-C1; | A17-B35-C2; | A17-B35-C3; | A17-B35-C4; | A17-B35-C5; | A17-B35-C6; |
| A17-B35-C7; | A17-B35-C8; | A17-B35-C9; | A18-B35-C1; | A18-B35-C2; | A18-B35-C3; |
| A18-B35-C4; | A18-B35-C5; | A18-B35-C6; | A18-B35-C7; | A18-B35-C8; | A18-B35-C9; |
| A19-B35-C1; | A19-B35-C2; | A19-B35-C3; | A19-B35-C4; | A19-B35-C5; | A19-B35-C6; |
| A19-B35-C7; | A19-B35-C8; | A19-B35-C9; | A20-B35-C1; | A20-B35-C2; | A20-B35-C3; |
| A20-B35-C4; | A20-B35-C5; | A20-B35-C6; | A20-B35-C7; | A20-B35-C8; | A20-B35-C9; |
| A21-B35-C1; | A21-B35-C2; | A21-B35-C3; | A21-B35-C4; | A21-B35-C5; | A21-B35-C6; |
| A21-B35-C7; | A21-B35-C8; | A21-B35-C9; | A22-B35-C1; | A22-B35-C2; | A22-B35-C3; |
| A22-B35-C4; | A22-B35-C5; | A22-B35-C6; | A22-B35-C7; | A22-B35-C8; | A22-B35-C9; |
| A23-B35-C1; | A23-B35-C2; | A23-B35-C3; | A23-B35-C4; | A23-B35-C5; | A23-B35-C6; |
| A23-B35-C7; | A23-B35-C8; | A23-B35-C9; | A24-B35-C1; | A24-B35-C2; | A24-B35-C3; |
| A24-B35-C4; | A24-B35-C5; | A24-B35-C6; | A24-B35-C7; | A24-B35-C8; | A24-B35-C9; |
| A25-B35-C1; | A25-B35-C2; | A25-B35-C3; | A25-B35-C4; | A25-B35-C5; | A25-B35-C6; |
| A25-B35-C7; | A25-B35-C8; | A25-B35-C9; | A26-B35-C1; | A26-B35-C2; | A26-B35-C3; |
| A26-B35-C4; | A26-B35-C5; | A26-B35-C6; | A26-B35-C7; | A26-B35-C8; | A26-B35-C9; |
| A27-B35-C1; | A27-B35-C2; | A27-B35-C3; | A27-B35-C4; | A27-B35-C5; | A27-B35-C6; |
| A27-B35-C7; | A27-B35-C8; | A27-B35-C9; | A28-B35-C1; | A28-B35-C2; | A28-B35-C3; |
| A28-B35-C4; | A28-B35-C5; | A28-B35-C6; | A28-B35-C7; | A28-B35-C8; | A28-B35-C9; |
| A29-B35-C1; | A29-B35-C2; | A29-B35-C3; | A29-B35-C4; | A29-B35-C5; | A29-B35-C6; |
| A29-B35-C7; | A29-B35-C8; | A29-B35-C9; | A30-B35-C1; | A30-B35-C2; | A30-B35-C3; |
| A30-B35-C4; | A30-B35-C5; | A30-B35-C6; | A30-B35-C7; | A30-B35-C8; | A30-B35-C9; |
| A31-B35-C1; | A31-B35-C2; | A31-B35-C3; | A31-B35-C4; | A31-B35-C5; | A31-B35-C6; |
| A31-B35-C7; | A31-B35-C8; | A31-B35-C9; | A32-B35-C1; | A32-B35-C2; | A32-B35-C3; |
| A32-B35-C4; | A32-B35-C5; | A32-B35-C6; | A32-B35-C7; | A32-B35-C8; | A32-B35-C9; |
| A33-B35-C1; | A33-B35-C2; | A33-B35-C3; | A33-B35-C4; | A33-B35-C5; | A33-B35-C6; |
| A33-B35-C7; | A33-B35-C8; | A33-B35-C9; | A34-B35-C1; | A34-B35-C2; | A34-B35-C3; |
| A34-B35-C4; | A34-B35-C5; | A34-B35-C6; | A34-B35-C7; | A34-B35-C8; | A34-B35-C9; |
| A35-B35-C1; | A35-B35-C2; | A35-B35-C3; | A35-B35-C4; | A35-B35-C5; | A35-B35-C6; |
| A35-B35-C7; | A35-B35-C8; | A35-B35-C9; | A36-B35-C1; | A36-B35-C2; | A36-B35-C3; |
| A36-B35-C4; | A36-B35-C5; | A36-B35-C6; | A36-B35-C7; | A36-B35-C8; | A36-B35-C9; |
| A37-B35-C1; | A37-B35-C2; | A37-B35-C3; | A37-B35-C4; | A37-B35-C5; | A37-B35-C6; |
| A37-B35-C7; | A37-B35-C8; | A37-B35-C9; | A38-B35-C1; | A38-B35-C2; | A38-B35-C3; |
| A38-B35-C4; | A38-B35-C5; | A38-B35-C6; | A38-B35-C7; | A38-B35-C8; | A38-B35-C9; |
| A39-B35-C1; | A39-B35-C2; | A39-B35-C3; | A39-B35-C4; | A39-B35-C5; | A39-B35-C6; |
| A39-B35-C7; | A39-B35-C8; | A39-B35-C9; | A40-B35-C1; | A40-B35-C2; | A40-B35-C3; |
| A40-B35-C4; | A40-B35-C5; | A40-B35-C6; | A40-B35-C7; | A40-B35-C8; | A40-B35-C9; |
| A41-B35-C1; | A41-B35-C2; | A41-B35-C3; | A41-B35-C4; | A41-B35-C5; | A41-B35-C6; |

| A41-B35-C7;                | A41-B35-C8;                | A41-B35-C9;                | A42-B35-C1;                | A42-B35-C2;                | A42-B35-C3;                |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A42-B35-C4;                | A42-B35-C5;                | A42-B35-C6;                | A42-B35-C7;                | A42-B35-C8;                | A42-B35-C9;                |
| A43-B35-C1;                | A43-B35-C2;                | A43-B35-C3;                | A43-B35-C4;                | A43-B35-C5;                | A43-B35-C6;                |
| A43-B35-C7;                | A43-B35-C8;                | A43-B35-C9;                | A44-B35-C1;                | A44-B35-C2;                | A44-B35-C3;                |
| A44-B35-C4;                | A44-B35-C5;                | A44-B35-C6;                | A44-B35-C7;                | A44-B35-C8;                | A44-B35-C9;                |
| A45-B35-C1;                | A45-B35-C2;                | A45-B35-C3;                | A45-B35-C4;                | A45-B35-C5;                | A45-B35-C6;                |
| A45-B35-C7;                | A45-B35-C8;                | A45-B35-C9;                | A46-B35-C1;                | A46-B35-C2;                | A46-B35-C3;                |
| A46-B35-C4;                | A46-B35-C5;                | A46-B35-C6;                | A46-B35-C7;                | A46-B35-C8;                | A46-B35-C9;                |
| A47-B35-C1;                | A47-B35-C2;                | A47-B35-C3;                | A47-B35-C4;                | A47-B35-C5;                | A47-B35-C6;                |
| A47-B35-C7;                | A47-B35-C8;                | A47-B35-C9;                | A48-B35-C1;                | A48-B35-C2;                | A48-B35-C3;                |
| A48-B35-C4;                | A48-B35-C5;                | A48-B35-C6;                | A48-B35-C7;                | A48-B35-C8;                | A48-B35-C9;                |
| A49-B35-C1;                | A49-B35-C2;                | A49-B35-C3;                | A49-B35-C4;                | A49-B35-C5;                | A49-B35-C6;                |
| A49-B35-C7;                | A49-B35-C8;                | A49-B35-C9;                | A50-B35-C1;                | A50-B35-C2;                | A50-B35-C3;                |
| A50-B35-C4;                | A50-B35-C5;                | A50-B35-C6;                | A50-B35-C7;                | A50-B35-C8;                | A50-B35-C9;                |
| A51-B35-C1;                | A51-B35-C2;                | A51-B35-C3;                | A51-B35-C4;                | A51-B35-C5;                | A51-B35-C6;                |
| A51-B35-C7;                | A51-B35-C8;                | A51-B35-C9;                | A52-B35-C1;                | A52-B35-C2;                | A52-B35-C3;                |
| A52-B35-C4;                | A52-B35-C5;                | A52-B35-C6;                | A52-B35-C7;                | A52-B35-C8;                | A52-B35-C9;                |
| A53-B35-C1;                | A53-B35-C2;                | A53-B35-C3;                | A53-B35-C4;                | A53-B35-C5;                | A53-B35-C6;                |
| A53-B35-C7;                | A53-B35-C8;                | A53-B35-C9;                | A54-B35-C1;                | A54-B35-C2;                | A54-B35-C3;                |
| A54-B35-C4;                | A54-B35-C5;                | A54-B35-C6;                | A54-B35-C7;                | A54-B35-C8;                | A54-B35-C9;                |
| A55-B35-C1;                | A55-B35-C2;                | A55-B35-C3;                | A55-B35-C4;                | A55-B35-C5;                | A55-B35-C6;                |
| A55-B35-C7;                | A55-B35-C8;                | A55-B35-C9;                | A56-B35-C1;                | A56-B35-C2;                | A56-B35-C3;                |
| A56-B35-C4;                | A56-B35-C5;                | A56-B35-C6;                | A56-B35-C7;                | A56-B35-C8;                | A56-B35-C9;                |
| A57-B35-C1;                | A57-B35-C2;                | A57-B35-C3;                | A57-B35-C4;                | A57-B35-C5;                | A57-B35-C6;                |
| A57-B35-C7;                | A57-B35-C8;                | A57-B35-C9;                | A58-B35-C1;                | A58-B35-C2;                | A58-B35-C3;                |
| A58-B35-C4;                | A58-B35-C5;                | A58-B35-C6;                | A58-B35-C7;                | A58-B35-C8;                | A58-B35-C9;                |
| A59-B35-C1;                | A59-B35-C2;                | A59-B35-C3;                | A59-B35-C4;                | A59-B35-C5;                | A59-B35-C6;                |
| A59-B35-C7;                | A59-B35-C8;                | A59-B35-C9;                | A60-B35-C1;                | A60-B35-C2;                | A60-B35-C3;                |
| A60-B35-C4;                | A60-B35-C5;                | A60-B35-C6;                | A60-B35-C7;                | A60-B35-C8;                | A60-B35-C9;                |
| A61-B35-C1;                | A61-B35-C2;                | A61-B35-C3;                | A61-B35-C4;                | A61-B35-C5;                | A61-B35-C6;                |
| A61-B35-C7;                | A61-B35-C8;                | A61-B35-C9;                | A62-B35-C1;                | A62-B35-C2;                | A62-B35-C3;                |
| A62-B35-C4;                | A62-B35-C5;                | A62-B35-C6;                | A62-B35-C7;                | A62-B35-C8;<br>A63-B35-C5; | A62-B35-C9;                |
| A63-B35-C1;<br>A63-B35-C7; | A63-B35-C2;                | A63-B35-C3;                | A63-B35-C4;<br>A64-B35-C1; | A64-B35-C2;                | A63-B35-C6;<br>A64-B35-C3; |
| A64-B35-C4;                | A63-B35-C8;<br>A64-B35-C5; | A63-B35-C9;                | A64-B35-C1;                | A64-B35-C2;<br>A64-B35-C8; | A64-B35-C9;                |
| A65-B35-C1;                | A65-B35-C2;                | A64-B35-C6;<br>A65-B35-C3; | A65-B35-C4;                | A65-B35-C5;                | A65-B35-C6;                |
| A65-B35-C1;                | A65-B35-C8;                | A65-B35-C9;                | A66-B35-C1;                | A66-B35-C2;                | A66-B35-C3;                |
| A66-B35-C4;                | A66-B35-C5;                | A66-B35-C6;                | A66-B35-C7;                | A66-B35-C8;                | A66-B35-C9;                |
| A67-B35-C4;                | A67-B35-C2;                | A67-B35-C3;                | A67-B35-C4;                | A67-B35-C5;                | A67-B35-C6;                |
| A67-B35-C7;                | A67-B35-C8;                | A67-B35-C9;                | A68-B35-C1;                | A68-B35-C2;                | A68-B35-C3;                |
| A68-B35-C4;                | A68-B35-C5;                | A68-B35-C6;                | A68-B35-C7;                | A68-B35-C8;                | A68-B35-C9;                |
| A69-B35-C1;                | A69-B35-C2;                | A69-B35-C3;                | A69-B35-C4;                | A69-B35-C5;                | A69-B35-C6;                |
| A69-B35-C7;                | A69-B35-C8;                | A69-B35-C9;                | A70-B35-C1;                | A70-B35-C2;                | A70-B35-C3;                |
| A70-B35-C4;                | A70-B35-C5;                | A70-B35-C6;                | A70-B35-C7;                | A70-B35-C8;                | A70-B35-C9;                |
| A71-B35-C1;                | A71-B35-C2;                | A71-B35-C3;                | A71-B35-C4;                | A71-B35-C5;                | A71-B35-C6;                |
| A71-B35-C7;                | A71-B35-C8;                | A71-B35-C9;                | A1-B36-C1;                 | A1-B36-C2;                 | A1-B36-C3;                 |
| A1-B36-C4;                 | A1-B36-C5;                 | A1-B36-C6;                 | A1-B36-C7;                 | A1-B36-C8;                 | A1-B36-C9;                 |
| A2-B36-C1;                 | A2-B36-C2;                 | A2-B36-C3;                 | A2-B36-C4;                 | A2-B36-C5;                 | A2-B36-C6;                 |
| A2-B36-C7;                 | A2-B36-C8;                 | A2-B36-C9;                 | A3-B36-C1;                 | A3-B36-C2;                 | A3-B36-C3;                 |
| A3-B36-C4;                 | A3-B36-C5;                 | A3-B36-C6;                 | A3-B36-C7;                 | A3-B36-C8;                 | A3-B36-C9;                 |
| A4-B36-C1;                 | A4-B36-C2;                 | A4-B36-C3;                 | A4-B36-C4;                 | A4-B36-C5;                 | A4-B36-C6;                 |
| A4-B36-C7;                 | A4-B36-C8;                 | A4-B36-C9;                 | A5-B36-C1;                 | A5-B36-C2;                 | A5-B36-C3;                 |
| A5-B36-C4;                 | A5-B36-C5;                 | A5-B36-C6;                 | A5-B36-C7;                 | A5-B36-C8;                 | A5-B36-C9;                 |
| A6-B36-C1;                 | A6-B36-C2;                 | A6-B36-C3;                 | A6-B36-C4;                 | A6-B36-C5;                 | A6-B36-C6;                 |
| A6-B36-C7;                 | A6-B36-C8;                 | A6-B36-C9;                 | A7-B36-C1;                 | A7-B36-C2;                 | A7-B36-C3;                 |
|                            |                            |                            |                            |                            |                            |

| A7-B36-C4;                 | A7-B36-C5;                 | A7-B36-C6;                 | A7-B36-C7;                 | A7-B36-C8;                 | A7-B36-C9;                 |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A8-B36-C1;                 | A8-B36-C2;                 | A8-B36-C3;                 | A8-B36-C4;                 | A8-B36-C5;                 | A8-B36-C6;                 |
| A8-B36-C7;                 | A8-B36-C8;                 | A8-B36-C9;                 | A9-B36-C1;                 | A9-B36-C2;                 | A9-B36-C3;                 |
| A9-B36-C4;                 | A9-B36-C5;                 | A9-B36-C6;                 | A9-B36-C7;                 | A9-B36-C8;                 | A9-B36-C9;                 |
| A10-B36-C1;                | A10-B36-C2;                | A10-B36-C3;                | A10-B36-C4;                | A10-B36-C5;                | A10-B36-C6;                |
| A10-B36-C7;                | A10-B36-C8;                | A10-B36-C9;                | A11-B36-C1;                | A11-B36-C2                 | A11-B36-C3;                |
| A11-B36-C4;                | A11-B36-C5;                | A11-B36-C6;                | A11-B36-C7;                | A11-B36-C8;                | A11-B36-C9;                |
| A12-B36-C1;                | A12-B36-C2;                | A12-B36-C3;                | A12-B36-C4;                | A12-B36-C5;                | A12-B36-C6;                |
| A12-B36-C7;                | A12-B36-C8;                | A12-B36-C9;                | A13-B36-C1;                | A13-B36-C2;                | A13-B36-C3;                |
| A13-B36-C4;                | A13-B36-C5;                | A13-B36-C6;                | A13-B36-C7;                | A13-B36-C8;                | A13-B36-C9;                |
| A14-B36-C1;                | A14-B36-C2;                | A14-B36-C3;                | A14-B36-C4;                | A14-B36-C5;                | A14-B36-C6;                |
| A14-B36-C7;                | A14-B36-C8;                | A14-B36-C9;                | A15-B36-C1;                | A15-B36-C2;                | A15-B36-C3;                |
| A15-B36-C4;                | A15-B36-C5;                | A15-B36-C6;                | A15-B36-C7;                | A15-B36-C8;                | A15-B36-C9;                |
| A16-B36-C1;                | A16-B36-C2;                | A16-B36-C3;                | A16-B36-C4;                | A16-B36-C5;                | A16-B36-C6;                |
| A16-B36-C7;                | A16-B36-C8;                | A16-B36-C9;                | A17-B36-C1;                | A17-B36-C2;                | A17-B36-C3;                |
| A17-B36-C4;                | A17-B36-C5;                | A17-B36-C6;                | A17-B36-C7;                | A17-B36-C8;                | A17-B36-C9;                |
| A18-B36-C1;                | A18-B36-C2;                | A18-B36-C3;                | A18-B36-C4;                | A18-B36-C5;                | A18-B36-C6;                |
| A18-B36-C7;                | A18-B36-C8;                | A18-B36-C9;                | A19-B36-C1;                | A19-B36-C2;                | A19-B36-C3;                |
| A19-B36-C4;                | A19-B36-C5;                | A19-B36-C6;                | A19-B36-C7;                | A19-B36-C8;                | A19-B36-C9;                |
| A20-B36-C1;                | A20-B36-C2;                | A20-B36-C3;                | A20-B36-C4;                | A20-B36-C5;                | A20-B36-C6;                |
| A20-B36-C7;                | A20-B36-C8;                | A20-B36-C9;                | A21-B36-C1;                | A21-B36-C2;                | A21-B36-C3;                |
| A21-B36-C4;                | A21-B36-C5;                | A21-B36-C6;                | A21-B36-C7;                | A21-B36-C8;                | A21-B36-C9;                |
| A22-B36-C1;                | A22-B36-C2;                | A22-B36-C3;                | A22-B36-C4;                | A22-B36-C5;                | A22-B36-C6;                |
| A22-B36-C7;                | A22-B36-C8;                | A22-B36-C9;                | A23-B36-C1;                | A23-B36-C2;                | A23-B36-C3;                |
| A23-B36-C4;                | A23-B36-C5;                | A23-B36-C6;                | A23-B36-C7;                | A23-B36-C8;                | A23-B36-C9;                |
| A24-B36-C1;                | A24-B36-C2;                | A24-B36-C3;                | A24-B36-C4;                | A24-B36-C5;                | A24-B36-C6;                |
| A24-B36-C7;                | A24-B36-C8;                | A24-B36-C9;                | A25-B36-C1;                | A25-B36-C2;                | A25-B36-C3;                |
| A25-B36-C4;                | A25-B36-C5;                | A25-B36-C6;                | A25-B36-C7;                | A25-B36-C8;                | A25-B36-C9;                |
| A26-B36-C1;                | A26-B36-C2;                | A26-B36-C3;                | A26-B36-C4;                | A26-B36-C5;                | A26-B36-C6;                |
| A26-B36-C7;                | A26-B36-C8;                | A26-B36-C9;                | A27-B36-C1;                | A27-B36-C2;                | A27-B36-C3;                |
| A27-B36-C4;                | A27-B36-C5;                | A27-B36-C6;                | A27-B36-C7;                | A27-B36-C8;                | A27-B36-C9;                |
| A28-B36-C1;                | A28-B36-C2;                | A28-B36-C3;                | A28-B36-C4;                | A28-B36-C5;                | A28-B36-C6;                |
| A28-B36-C7;                | A28-B36-C8;                | A28-B36-C9;                | A29-B36-C1;                | A29-B36-C2;                | A29-B36-C3;                |
| A29-B36-C4;                | A29-B36-C5;                | A29-B36-C6;                | A29-B36-C7;                | A29-B36-C8;                | A29-B36-C9;                |
| A30-B36-C1;                | A30-B36-C2;                | A30-B36-C3;                | A30-B36-C4;                | A30-B36-C5;                | A30-B36-C6;                |
| A30-B36-C7;                | A30-B36-C8;                | A30-B36-C9;                | A31-B36-C1;                | A31-B36-C2;                | A31-B36-C3;                |
| A31-B36-C4;<br>A32-B36-C1; | A31-B36-C5;<br>A32-B36-C2; | A31-B36-C6;                | A31-B36-C7;                | A31-B36-C8;                | A31-B36-C9;                |
| A32-B36-C7;                | A32-B36-C2;<br>A32-B36-C8; | A32-B36-C3;<br>A32-B36-C9; | A32-B36-C4;<br>A33-B36-C1; | A32-B36-C5;<br>A33-B36-C2; | A32-B36-C6;                |
| A33-B36-C4;                | A32-B36-C5;                | A33-B36-C6;                | A33-B36-C1;                | A33-B36-C2;                | A33-B36-C3;<br>A33-B36-C9; |
| A34-B36-C1;                | A34-B36-C2;                | A34-B36-C3;                | A34-B36-C4;                | A34-B36-C5;                | A34-B36-C6;                |
| A34-B36-C7;                | A34-B36-C8;                | A34-B36-C9;                | A35-B36-C1;                | A35-B36-C2;                | A35-B36-C3;                |
| A35-B36-C4;                | A35-B36-C5;                | A35-B36-C6;                | A35-B36-C7;                | A35-B36-C8;                | A35-B36-C9;                |
| A36-B36-C1;                | A36-B36-C2;                | A36-B36-C3;                | A36-B36-C4;                | A36-B36-C5;                | A36-B36-C6;                |
| A36-B36-C7;                | A36-B36-C8;                | A36-B36-C9;                | A37-B36-C1;                | A37-B36-C2;                | A37-B36-C3;                |
| A37-B36-C4;                | A37-B36-C5;                | A37-B36-C6;                | A37-B36-C7;                | A37-B36-C8;                | A37-B36-C9;                |
| A38-B36-C1;                | A38-B36-C2;                | A38-B36-C3;                | A38-B36-C4;                | A38-B36-C5;                | A38-B36-C6;                |
| A38-B36-C7;                | A38-B36-C8;                | A38-B36-C9;                | A39-B36-C1;                | A39-B36-C2;                | A39-B36-C3;                |
| A39-B36-C4;                | A39-B36-C5;                | A39-B36-C6;                | A39-B36-C7;                | A39-B36-C8;                | A39-B36-C9;                |
| A40-B36-C1;                | A40-B36-C2;                | A40-B36-C3;                | A40-B36-C4;                | A40-B36-C5;                | A40-B36-C6;                |
| A40-B36-C7;                | A40-B36-C8;                | A40-B36-C9;                | A41-B36-C1;                | A41-B36-C2;                | A41-B36-C3;                |
| A41-B36-C4;                | A41-B36-C5;                | A41-B36-C6;                | A41-B36-C7;                | A41-B36-C8;                | A41-B36-C9;                |
| A42-B36-C1;                | A42-B36-C2;                | A42-B36-C3;                | A42-B36-C4;                | A42-B36-C5;                | A42-B36-C6;                |
| A42-B36-C7;                | A42-B36-C8;                | A42-B36-C9;                | A43-B36-C1;                | A43-B36-C2;                | A43-B36-C3;                |
| A43-B36-C4;                | A43-B36-C5;                | A43-B36-C6;                | A43-B36-C7;                | A43-B36-C8;                | A43-B36-C9;                |
| •                          | •                          | ,                          | •                          | •                          | ,                          |

| A44-B36-C1; | A44-B36-C2; | A44-B36-C3; | A44-B36-C4;                | A44-B36-C5;              | A44-B36-C6; |
|-------------|-------------|-------------|----------------------------|--------------------------|-------------|
| A44-B36-C7; | A44-B36-C8; | A44-B36-C9; | A45-B36-C1;                | A45-B36-C2;              | A45-B36-C3; |
|             |             |             |                            | A45-B36-C8;              | A45-B36-C9; |
| A45-B36-C4; | A45-B36-C5; | A45-B36-C6; | A45-B36-C7;                |                          |             |
| A46-B36-C1; | A46-B36-C2; | A46-B36-C3; | A46-B36-C4;                | A46-B36-C5;              | A46-B36-C6; |
| A46-B36-C7; | A46-B36-C8; | A46-B36-C9; | A47-B36-C1;                | A47-B36-C2;              | A47-B36-C3; |
| A47-B36-C4; | A47-B36-C5; | A47-B36-C6; | A47-B36-C7;                | A47-B36-C8;              | A47-B36-C9; |
| A48-B36-C1; | A48-B36-C2; | A48-B36-C3; | A48-B36-C4;                | A48-B36-C5;              | A48-B36-C6; |
| A48-B36-C7; | A48-B36-C8; | A48-B36-C9; | A49-B36-C1;                | A49-B36-C2;              | A49-B36-C3; |
| A49-B36-C4; | A49-B36-C5; | A49-B36-C6; | A49-B36-C7;                | A49-B36-C8;              | A49-B36-C9; |
| A50-B36-C1; | A50-B36-C2; | A50-B36-C3; | A50-B36-C4;                | A50-B36-C5;              | A50-B36-C6; |
| A50-B36-C7; | A50-B36-C8; | A50-B36-C9; | A51-B36-C1;                | A51-B36-C2;              | A51-B36-C3; |
| A51-B36-C4; | A51-B36-C5; | A51-B36-C6; | A51-B36-C7;                | A51-B36-C8;              | A51-B36-C9; |
| A52-B36-C1; | A52-B36-C2; | A52-B36-C3; | A52-B36-C4;                | A52-B36-C5;              | A52-B36-C6; |
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| A53-B36-C4; | A53-B36-C5; | A53-B36-C6; | A53-B36-C7;                | A53-B36-C8;              | A53-B36-C9; |
| A54-B36-C1; | A54-B36-C2; | A54-B36-C3; | A54-B36-C4;                | A54-B36-C5;              | A54-B36-C6; |
| A54-B36-C7; | A54-B36-C8; | A54-B36-C9; | A55-B36-C1;                | A55-B36-C2;              | A55-B36-C3; |
| A55-B36-C4; | A55-B36-C5; | A55-B36-C6; | A55-B36-C7;                | A55-B36-C8;              | A55-B36-C9; |
| A56-B36-C1; | A56-B36-C2; | A56-B36-C3; | A56-B36-C4;                | A56-B36-C5;              | A56-B36-C6; |
| A56-B36-C7; | A56-B36-C8; | A56-B36-C9; | A57-B36-C1;                | A57-B36-C2;              | A57-B36-C3; |
| A57-B36-C4; | A57-B36-C5; | A57-B36-C6; | A57-B36-C1;<br>A57-B36-C7; | A57-B36-C2;              | A57-B36-C9; |
|             |             |             |                            | A58-B36-C5;              | A58-B36-C6; |
| A58-B36-C1; | A58-B36-C2; | A58-B36-C3; | A58-B36-C4;                | '                        |             |
| A58-B36-C7; | A58-B36-C8; | A58-B36-C9; | A59-B36-C1;                | A59-B36-C2;              | A59-B36-C3; |
| A59-B36-C4; | A59-B36-C5; | A59-B36-C6; | A59-B36-C7;                | A59-B36-C8;              | A59-B36-C9; |
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| A61-B36-C4; | A61-B36-C5; | A61-B36-C6; | A61-B36-C7;                | A61-B36-C8;              | A61-B36-C9; |
| A62-B36-C1; | A62-B36-C2; | A62-B36-C3; | A62-B36-C4;                | A62-B36-C5;              | A62-B36-C6; |
| A62-B36-C7; | A62-B36-C8; | A62-B36-C9; | A63-B36-C1;                | A63-B36-C2;              | A63-B36-C3; |
| A63-B36-C4; | A63-B36-C5; | A63-B36-C6; | A63-B36-C7;                | A63-B36-C8;              | A63-B36-C9; |
| A64-B36-C1; | A64-B36-C2; | A64-B36-C3; | A64-B36-C4;                | A64-B36-C5;              | A64-B36-C6; |
| A64-B36-C7; | A64-B36-C8; | A64-B36-C9; | A65-B36-C1;                | A65-B36-C2;              | A65-B36-C3; |
| A65-B36-C4; | A65-B36-C5; | A65-B36-C6; | A65-B36-C7;                | A65-B36-C8;              | A65-B36-C9; |
| A66-B36-C1; | A66-B36-C2; | A66-B36-C3; | A66-B36-C4;                | A66-B36-C5;              | A66-B36-C6; |
| A66-B36-C7; | A66-B36-C8; | A66-B36-C9; | A67-B36-C1;                | A67-B36-C2;              | A67-B36-C3; |
| A67-B36-C4; | A67-B36-C5; | A67-B36-C6; | A67-B36-C7;                | A67-B36-C8;              | A67-B36-C9; |
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| A68-B36-C7; | A68-B36-C8; | A68-B36-C9; | A69-B36-C1;                | A69-B36-C2:              | A69-B36-C3; |
| A69-B36-C4; | A69-B36-C5; | A69-B36-C6; | A69-B36-C7;                | A69-B36-C8;              | A69-B36-C9; |
| A70-B36-C1; | A70-B36-C2; | A70-B36-C3; | A70-B36-C4;                | A70-B36-C5;              | A70-B36-C6; |
| A70-B36-C7; | A70-B36-C8; | A70-B36-C9; | A71-B36-C1;                | A71-B36-C2;              | A71-B36-C3; |
| A71-B36-C4; | A71-B36-C5; | A71-B36-C6; | A71-B36-C7;                | A71-B36-C8;              | A71-B36-C9; |
| A1-B37-C1;  | A1-B37-C2;  | A1-B37-C3;  | A1-B37-C4;                 | A1-B37-C5;               | A1-B37-C6;  |
| A1-B37-C7;  | A1-B37-C2;  | A1-B37-C9;  | A2-B37-C1;                 | A2-B37-C2;               | A2-B37-C3;  |
| A2-B37-C4;  |             | A2-B37-C6;  | A2-B37-C1;<br>A2-B37-C7;   | A2-B37-C2;<br>A2-B37-C8; | A2-B37-C9;  |
| •           | A2-B37-C5;  | •           |                            |                          |             |
| A3-B37-C1;  | A3-B37-C2;  | A3-B37-C3;  | A3-B37-C4;                 | A3-B37-C5;               | A3-B37-C6;  |
| A3-B37-C7;  | A3-B37-C8;  | A3-B37-C9;  | A4-B37-C1;                 | A4-B37-C2;               | A4-B37-C3;  |
| A4-B37-C4;  | A4-B37-C5;  | A4-B37-C6;  | A4-B37-C7;                 | A4-B37-C8;               | A4-B37-C9;  |
| A5-B37-C1;  | A5-B37-C2;  | A5-B37-C3;  | A5-B37-C4;                 | A5-B37-C5;               | A5-B37-C6;  |
| A5-B37-C7;  | A5-B37-C8;  | A5-B37-C9;  | A6-B37-C1;                 | A6-B37-C2;               | A6-B37-C3;  |
| A6-B37-C4;  | A6-B37-C5;  | A6-B37-C6;  | A6-B37-C7;                 | A6-B37-C8;               | A6-B37-C9;  |
| A7-B37-C1;  | A7-B37-C2;  | A7-B37-C3;  | A7-B37-C4;                 | A7-B37-C5;               | A7-B37-C6;  |
| A7-B37-C7;  | A7-B37-C8;  | A7-B37-C9;  | A8-B37-C1;                 | A8-B37-C2;               | A8-B37-C3;  |
| A8-B37-C4;  | A8-B37-C5;  | A8-B37-C6;  | A8-B37-C7;                 | A8-B37-C8;               | A8-B37-C9;  |
| A9-B37-C1;  | A9-B37-C2;  | A9-B37-C3;  | A9-B37-C4;                 | A9-B37-C5;               | A9-B37-C6;  |
|             |             |             |                            |                          |             |

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|-------------|-------------|-------------|----------------------------|-------------|----------------------------|
| A9-B37-C7;  | A9-B37-C8;  | A9-B37-C9;  | A10-B37-C1;                | A10-B37-C2; | A10-B37-C3;                |
| A10-B37-C4; | A10-B37-C5; | A10-B37-C6; | A10-B37-C7;                | A10-B37-C8; | A10-B37-C9;                |
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| A11-B37-C7; | A11-B37-C8; | A11-B37-C9; | A12-B37-C1;                | A12-B37-C2; | A12-B37-C3;                |
| A12-B37-C4; | A12-B37-C5; | A12-B37-C6; | A12-B37-C7;                | A12-B37-C8; | A12-B37-C9;                |
| A13-B37-C1; | A13-B37-C2; | A13-B37-C3; | A13-B37-C4;                | A13-B37-C5; | A13-B37-C6;                |
| A13-B37-C7; | A13-B37-C8; | A13-B37-C9; | A14-B37-C1;                | A14-B37-C2; | A14-B37-C3;                |
| A14-B37-C4; | A14-B37-C5; | A14-B37-C6; | A14-B37-C7;                | A14-B37-C8; | A14-B37-C9;                |
| A15-B37-C1; | A15-B37-C2; | A15-B37-C3; | A15-B37-C4;                | A15-B37-C5; | A15-B37-C6;                |
| A15-B37-C7; | A15-B37-C8; | A15-B37-C9; | A16-B37-C1;                | A16-B37-C2; | A16-B37-C3;                |
| A16-B37-C4; | A16-B37-C5; | A16-B37-C6; | A16-B37-C7;                | A16-B37-C8; | A16-B37-C9;                |
| A17-B37-C1; | A17-B37-C2; | A17-B37-C3; | A17-B37-C4;                | A17-B37-C5; | A17-B37-C6;                |
| A17-B37-C7; | A17-B37-C8; | A17-B37-C9; | A18-B37-C1;                | A18-B37-C2; | A18-B37-C3;                |
| A18-B37-C4; | A18-B37-C5; | A18-B37-C6; | A18-B37-C7;                | A18-B37-C8; | A18-B37-C9;                |
|             |             | A19-B37-C0; | A19-B37-C4;                | A19-B37-C5; | A19-B37-C6;                |
| A19-B37-C1; | A19-B37-C2; |             |                            |             |                            |
| A19-B37-C7; | A19-B37-C8; | A19-B37-C9; | A20-B37-C1;                | A20-B37-C2; | A20-B37-C3;                |
| A20-B37-C4; | A20-B37-C5; | A20-B37-C6; | A20-B37-C7;                | A20-B37-C8; | A20-B37-C9;                |
| A21-B37-C1; | A21-B37-C2; | A21-B37-C3; | A21-B37-C4;                | A21-B37-C5; | A21-B37-C6;                |
| A21-B37-C7; | A21-B37-C8; | A21-B37-C9; | A22-B37-C1;                | A22-B37-C2; | A22-B37-C3;                |
| A22-B37-C4; | A22-B37-C5; | A22-B37-C6; | A22-B37-C7;                | A22-B37-C8; | A22-B37-C9;                |
| A23-B37-C1; | A23-B37-C2; | A23-B37-C3; | A23-B37-C4;                | A23-B37-C5; | A23-B37-C6;                |
| A23-B37-C7; | A23-B37-C8; | A23-B37-C9; | A24-B37-C1;                | A24-B37-C2; | A24-B37-C3;                |
| A24-B37-C4; | A24-B37-C5; | A24-B37-C6; | A24-B37-C7;                | A24-B37-C8; | A24-B37-C9;                |
| A25-B37-C1; | A25-B37-C2; | A25-B37-C3; | A25-B37-C4;                | A25-B37-C5; | A25-B37-C6;                |
| A25-B37-C7; | A25-B37-C8; | A25-B37-C9; | A26-B37-C1;                | A26-B37-C2; | A26-B37-C3;                |
| A26-B37-C4; | A26-B37-C5; | A26-B37-C6; | A26-B37-C7;                | A26-B37-C8; | A26-B37-C9;                |
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| A27-B37-C7; | A27-B37-C8; | A27-B37-C9; | A28-B37-C1;                | A28-B37-C2; | A28-B37-C3;                |
| A28-B37-C4; | A28-B37-C5; | A28-B37-C6; | A28-B37-C7;                | A28-B37-C8; | A28-B37-C9;                |
| A29-B37-C1; | A29-B37-C2; | A29-B37-C3; | A29-B37-C4;                | A29-B37-C5; | A29-B37-C6;                |
| A29-B37-C7; | A29-B37-C8; | A29-B37-C9; | A30-B37-C1;                | A30-B37-C2; | A30-B37-C3;                |
| A30-B37-C4; | A30-B37-C5; | A30-B37-C6; | A30-B37-C7;                | A30-B37-C8; | A30-B37-C9;                |
| A31-B37-C1; | A31-B37-C2; | A31-B37-C3; | A31-B37-C4;                | A31-B37-C5; | A31-B37-C6;                |
| A31-B37-C7; | A31-B37-C8; | A31-B37-C9; | A32-B37-C1;                | A32-B37-C2; | A32-B37-C3;                |
| A32-B37-C4; | A32-B37-C5; | A32-B37-C6; | A32-B37-C7;                | A32-B37-C8; | A32-B37-C9;                |
| A33-B37-C1; | A33-B37-C2; | A33-B37-C3; | A33-B37-C4;                | A33-B37-C5; | A33-B37-C6;                |
| A33-B37-C7; | A33-B37-C8; | A33-B37-C9; | A34-B37-C1;                | A34-B37-C2; | A34-B37-C3;                |
| A34-B37-C4; |             | A34-B37-C6; | A34-B37-C7;                | A34-B37-C8; | A34-B37-C9;                |
|             | A34-B37-C5; |             | A35-B37-C4;                |             |                            |
| A35-B37-C1; | A35-B37-C2; | A35-B37-C3; | A36-B37-C4;                | A35-B37-C5; | A35-B37-C6;<br>A36-B37-C3; |
| A35-B37-C7; | A35-B37-C8; | A35-B37-C9; | •                          | A36-B37-C2; |                            |
| A36-B37-C4; | A36-B37-C5; | A36-B37-C6; | A36-B37-C7;<br>A37-B37-C4; | A36-B37-C8; | A36-B37-C9;                |
| A37-B37-C1; | A37-B37-C2; | A37-B37-C3; | •                          | A37-B37-C5; | A37-B37-C6;                |
| A37-B37-C7; | A37-B37-C8; | A37-B37-C9; | A38-B37-C1;                | A38-B37-C2; | A38-B37-C3;                |
| A38-B37-C4; | A38-B37-C5; | A38-B37-C6; | A38-B37-C7;                | A38-B37-C8; | A38-B37-C9;                |
| A39-B37-C1; | A39-B37-C2; | A39-B37-C3; | A39-B37-C4;                | A39-B37-C5; | A39-B37-C6;                |
| A39-B37-C7; | A39-B37-C8; | A39-B37-C9; | A40-B37-C1;                | A40-B37-C2; | A40-B37-C3;                |
| A40-B37-C4; | A40-B37-C5; | A40-B37-C6; | A40-B37-C7;                | A40-B37-C8; | A40-B37-C9;                |
| A41-B37-C1; | A41-B37-C2; | A41-B37-C3; | A41-B37-C4;                | A41-B37-C5; | A41-B37-C6;                |
| A41-B37-C7; | A41-B37-C8; | A41-B37-C9; | A42-B37-C1;                | A42-B37-C2; | A42-B37-C3;                |
| A42-B37-C4; | A42-B37-C5; | A42-B37-C6; | A42-B37-C7;                | A42-B37-C8; | A42-B37-C9;                |
| A43-B37-C1; | A43-B37-C2; | A43-B37-C3; | A43-B37-C4;                | A43-B37-C5; | A43-B37-C6;                |
| A43-B37-C7; | A43-B37-C8; | A43-B37-C9; | A44-B37-C1;                | A44-B37-C2; | A44-B37-C3;                |
| A44-B37-C4; | A44-B37-C5; | A44-B37-C6; | A44-B37-C7;                | A44-B37-C8; | A44-B37-C9;                |
| A45-B37-C1; | A45-B37-C2; | A45-B37-C3; | A45-B37-C4;                | A45-B37-C5; | A45-B37-C6;                |
| A45-B37-C7; | A45-B37-C8; | A45-B37-C9; | A46-B37-C1;                | A46-B37-C2; | A46-B37-C3;                |
| •           | •           | •           | <del>-</del>               | ·           | ,                          |

| A46-B37-C4; | A46 D27 C5  | A46-B37-C6; | A46 D27 C7   | A46-B37-C8;   | A46-B37-C9;  |
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|             | A46-B37-C5; |             | A46-B37-C7;  |               |              |
| A47-B37-C1; | A47-B37-C2; | A47-B37-C3; | A47-B37-C4;  | A47-B37-C5;   | A47-B37-C6;  |
| A47-B37-C7; | A47-B37-C8; | A47-B37-C9; | A48-B37-C1;  | A48-B37-C2;   | A48-B37-C3;  |
| A48-B37-C4; | A48-B37-C5; | A48-B37-C6; | A48-B37-C7;  | A48-B37-C8;   | A48-B37-C9;  |
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| A49-B37-C7; | A49-B37-C8; | A49-B37-C9; | A50-B37-C1;  | A50-B37-C2;   | A50-B37-C3;  |
| A50-B37-C4; | A50-B37-C5; | A50-B37-C6; | A50-B37-C7;  | A50-B37-C8;   | A50-B37-C9;  |
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| A51-B37-C7; | A51-B37-C8; | A51-B37-C9; | A52-B37-C1;  | A52-B37-C2;   | A52-B37-C3;  |
| A52-B37-C4; | A52-B37-C5; | A52-B37-C6; | A52-B37-C7;  | A52-B37-C8;   | A52-B37-C9;  |
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| A53-B37-C7; | A53-B37-C8; | A53-B37-C9; | A54-B37-C1;  | A54-B37-C2;   | A54-B37-C3;  |
| A54-B37-C4; | A54-B37-C5; | A54-B37-C6; | A54-B37-C7;  | A54-B37-C8;   | A54-B37-C9;  |
| A55-B37-C1; | A55-B37-C2; | A55-B37-C3; | A55-B37-C4;  | A55-B37-C5;   | A55-B37-C6;  |
| A55-B37-C7; | A55-B37-C8; | A55-B37-C9; | A56-B37-C1;  | A56-B37-C2;   | A56-B37-C3;  |
| A56-B37-C4; | A56-B37-C5; | A56-B37-C6; | A56-B37-C7;  | A56-B37-C8;   | A56-B37-C9;  |
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| A57-B37-C1; | A57-B37-C2; | A57-B37-C3; | A57-B37-C4;  | A57-B37-C5;   | A57-B37-C6;  |
| A57-B37-C7; | A57-B37-C8; | A57-B37-C9; | A58-B37-C1;  | A58-B37-C2;   | A58-B37-C3;  |
| A58-B37-C4; | A58-B37-C5; | A58-B37-C6; | A58-B37-C7;  | A58-B37-C8;   | A58-B37-C9;  |
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| A59-B37-C7; | A59-B37-C8; | A59-B37-C9; | A60-B37-C1;  | A60-B37-C2;   | A60-B37-C3;  |
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| A2-B38-C1;  | A2-B38-C2;  | A2-B38-C3;  | A2-B38-C4;   | A2-B38-C5;    | A2-B38-C6;   |
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| A6-B38-C7;  | A6-B38-C8;  | A6-B38-C9;  | A7-B38-C1;   | A7-B38-C2;    | A7-B38-C3;   |
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| A10-B38-C7; | A10-B38-C8; | A10-B38-C9; | A11-B38-C1;  | A11-B38-C2;   | A11-B38-C3;  |
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| A70-B38-C1;   | A70-B38-C2; | A70-B38-C3; | A70-B38-C4; |             |             |
| A70-B38-C7;   | A70-B38-C8; | A70-B38-C9; | A71-B38-C1; | A71-B38-C2; | A71-B38-C3; |
| A71-B38-C4;   | A71-B38-C5; | A71-B38-C6; | A71-B38-C7; | A71-B38-C8; | A71-B38-C9; |
| A1-B39-C1;    | A1-B39-C2;  | A1-B39-C3;  | A1-B39-C4;  | A1-B39-C5;  | A1-B39-C6;  |
| A1-B39-C7;    | A1-B39-C8;  | A1-B39-C9;  | A2-B39-C1;  | A2-B39-C2;  | A2-B39-C3;  |
| A2-B39-C4;    | A2-B39-C5;  | A2-B39-C6;  | A2-B39-C7;  | A2-B39-C8;  | A2-B39-C9;  |
| A3-B39-C1;    | A3-B39-C2;  | A3-B39-C3;  | A3-B39-C4;  | A3-B39-C5;  | A3-B39-C6;  |
| A3-B39-C7;    | A3-B39-C8;  | A3-B39-C9;  | A4-B39-C1;  | A4-B39-C2;  | A4-B39-C3;  |
| A4-B39-C4;    | A4-B39-C5;  | A4-B39-C6;  | A4-B39-C7;  | A4-B39-C8;  | A4-B39-C9;  |
| A5-B39-C1;    | A5-B39-C2;  | A5-B39-C3;  | A5-B39-C4;  | A5-B39-C5;  | A5-B39-C6;  |
| A5-B39-C7;    | A5-B39-C8;  | A5-B39-C9;  | A6-B39-C1;  | A6-B39-C2;  | A6-B39-C3;  |
| A6-B39-C4;    | A6-B39-C5;  | A6-B39-C6;  | A6-B39-C7;  | A6-B39-C8;  | A6-B39-C9;  |
| A7-B39-C1;    | A7-B39-C2;  | A7-B39-C3;  | A7-B39-C4;  | A7-B39-C5;  | A7-B39-C6;  |
| A7-B39-C7;    | A7-B39-C8;  | A7-B39-C9;  | A8-B39-C1;  | A8-B39-C2;  | A8-B39-C3;  |
| A8-B39-C4;    | A8-B39-C5;  | A8-B39-C6;  | A8-B39-C7;  | A8-B39-C8;  | A8-B39-C9;  |
| A9-B39-C1;    | A9-B39-C2;  | A9-B39-C3;  | A9-B39-C4;  | A9-B39-C5;  | A9-B39-C6;  |
| A9-B39-C7;    | A9-B39-C8;  | A9-B39-C9;  | A10-B39-C1; | A10-B39-C2; | A10-B39-C3; |
| A10-B39-C4;   | A10-B39-C5; | A10-B39-C6; | A10-B39-C7; | A10-B39-C8; | A10-B39-C9; |
| A11-B39-C1;   | A11-B39-C2; | A11-B39-C3; | A11-B39-C4; | A11-B39-C5; | A11-B39-C6; |
| A11-B39-C7;   | A11-B39-C8; | A11-B39-C9; | A12-B39-C1; | A12-B39-C2; | A12-B39-C3; |
| A12-B39-C4;   | A12-B39-C5; | A12-B39-C6; | A12-B39-C7; | A12-B39-C8; | A12-B39-C9; |
| A13-B39-C1;   | A13-B39-C2; | A13-B39-C3; | A13-B39-C4; | A13-B39-C5; | A13-B39-C6; |
| A13-B39-C7;   | A13-B39-C8; | A13-B39-C9; | A14-B39-C1; | A14-B39-C2; | A14-B39-C3; |
|               | •           |             |             |             |             |

| A14-B39-C4; | A14-B39-C5;                | A14-B39-C6; | A14-B39-C7;                | A14-B39-C8;                | A14-B39-C9; |
|-------------|----------------------------|-------------|----------------------------|----------------------------|-------------|
|             | A15-B39-C3;                | A15-B39-C3; | A15-B39-C4;                | A15-B39-C5;                | A15-B39-C6; |
| A15-B39-C1; |                            |             | A16-B39-C1;                | A16-B39-C2;                | A16-B39-C3; |
| A15-B39-C7; | A15-B39-C8;                | A15-B39-C9; |                            | A16-B39-C2;                | A16-B39-C9; |
| A16-B39-C4; | A16-B39-C5;                | A16-B39-C6; | A16-B39-C7;                |                            |             |
| A17-B39-C1; | A17-B39-C2;                | A17-B39-C3; | A17-B39-C4;                | A17-B39-C5;                | A17-B39-C6; |
| A17-B39-C7; | A17-B39-C8;                | A17-B39-C9; | A18-B39-C1;                | A18-B39-C2;                | A18-B39-C3; |
| A18-B39-C4; | A18-B39-C5;                | A18-B39-C6; | A18-B39-C7;                | A18-B39-C8;                | A18-B39-C9; |
| A19-B39-C1; | A19-B39-C2;                | A19-B39-C3; | A19-B39-C4;                | A19-B39-C5;                | A19-B39-C6; |
| A19-B39-C7; | A19-B39-C8;                | A19-B39-C9; | A20-B39-C1;                | A20-B39-C2;                | A20-B39-C3; |
| A20-B39-C4; | A20-B39-C5;                | A20-B39-C6; | A20-B39-C7;                | A20-B39-C8;                | A20-B39-C9; |
| A21-B39-C1; | A21-B39-C2;                | A21-B39-C3; | A21-B39-C4;                | A21-B39-C5;                | A21-B39-C6; |
| A21-B39-C7; | A21-B39-C8;                | A21-B39-C9; | A22-B39-C1;                | A22-B39-C2;                | A22-B39-C3; |
| A22-B39-C4; | A22-B39-C5;                | A22-B39-C6; | A22-B39-C7;                | A22-B39-C8;                | A22-B39-C9; |
| A23-B39-C1; | A23-B39-C2;                | A23-B39-C3; | A23-B39-C4;                | A23-B39-C5;                | A23-B39-C6; |
| A23-B39-C7; | A23-B39-C8;                | A23-B39-C9; | A24-B39-C1;                | A24-B39-C2;                | A24-B39-C3; |
| A24-B39-C4; | A24-B39-C5;                | A24-B39-C6; | A24-B39-C7;                | A24-B39-C8;                | A24-B39-C9; |
| A25-B39-C1; | A25-B39-C2;                | A25-B39-C3; | A25-B39-C4;                | A25-B39-C5;                | A25-B39-C6; |
| A25-B39-C7; | A25-B39-C8;                | A25-B39-C9; | A26-B39-C1;                | A26-B39-C2;                | A26-B39-C3; |
| A26-B39-C4; | A26-B39-C5;                | A26-B39-C6; | A26-B39-C7;                | A26-B39-C8;                | A26-B39-C9; |
| A27-B39-C1; | A27-B39-C2;                | A27-B39-C3; | A27-B39-C4;                | A27-B39-C5;                | A27-B39-C6; |
| A27-B39-C7; | A27-B39-C8;                | A27-B39-C9; | A28-B39-C1;                | A28-B39-C2;                | A28-B39-C3; |
| A28-B39-C4; | A28-B39-C5;                | A28-B39-C6; | A28-B39-C7;                | A28-B39-C8;                | A28-B39-C9; |
| A29-B39-C1; | A29-B39-C2;                | A29-B39-C3; | A29-B39-C4;                | A29-B39-C5;                | A29-B39-C6; |
| A29-B39-C7; | A29-B39-C8;                | A29-B39-C9; | A30-B39-C1;                | A30-B39-C2;                | A30-B39-C3; |
| A30-B39-C4; | A30-B39-C5;                | A30-B39-C6; | A30-B39-C7;                | A30-B39-C8;                | A30-B39-C9; |
| A31-B39-C1; | A31-B39-C2;                | A31-B39-C3; | A31-B39-C4;                | A31-B39-C5;                | A31-B39-C6; |
|             | A31-B39-C2;<br>A31-B39-C8; | A31-B39-C9; | A32-B39-C1;                | A32-B39-C2;                | A32-B39-C3; |
| A31-B39-C7; |                            |             | A32-B39-C1;<br>A32-B39-C7; | A32-B39-C8;                | A32-B39-C9; |
| A32-B39-C4; | A32-B39-C5;                | A32-B39-C6; |                            | A32-B39-C8;<br>A33-B39-C5; | A33-B39-C6; |
| A33-B39-C1; | A33-B39-C2;                | A33-B39-C3; | A33-B39-C4;                |                            | A34-B39-C3; |
| A33-B39-C7; | A33-B39-C8;                | A33-B39-C9; | A34-B39-C1;                | A34-B39-C2;                | A34-B39-C9; |
| A34-B39-C4; | A34-B39-C5;                | A34-B39-C6; | A34-B39-C7;                | A34-B39-C8;                |             |
| A35-B39-C1; | A35-B39-C2;                | A35-B39-C3; | A35-B39-C4;                | A35-B39-C5;                | A35-B39-C6; |
| A35-B39-C7; | A35-B39-C8;                | A35-B39-C9; | A36-B39-C1;                | A36-B39-C2;                | A36-B39-C3; |
| A36-B39-C4; | A36-B39-C5;                | A36-B39-C6; | A36-B39-C7;                | A36-B39-C8;                | A36-B39-C9; |
| A37-B39-C1; | A37-B39-C2;                | A37-B39-C3; | A37-B39-C4;                | A37-B39-C5;                | A37-B39-C6; |
| A37-B39-C7; | A37-B39-C8;                | A37-B39-C9; | A38-B39-C1;                | A38-B39-C2;                | A38-B39-C3; |
| A38-B39-C4; | A38-B39-C5;                | A38-B39-C6; | A38-B39-C7;                | A38-B39-C8;                | A38-B39-C9; |
| A39-B39-C1; | A39-B39-C2;                | A39-B39-C3; | A39-B39-C4;                | A39-B39-C5;                | A39-B39-C6; |
| A39-B39-C7; | A39-B39-C8;                | A39-B39-C9; | A40-B39-C1;                | A40-B39-C2;                | A40-B39-C3; |
| A40-B39-C4; | A40-B39-C5;                | A40-B39-C6; | A40-B39-C7;                | A40-B39-C8;                | A40-B39-C9; |
| A41-B39-C1; | A41-B39-C2;                | A41-B39-C3; | A41-B39-C4;                | A41-B39-C5;                | A41-B39-C6; |
| A41-B39-C7; | A41-B39-C8;                | A41-B39-C9; | A42-B39-C1;                | A42-B39-C2;                | A42-B39-C3; |
| A42-B39-C4; | A42-B39-C5;                | A42-B39-C6; | A42-B39-C7;                | A42-B39-C8;                | A42-B39-C9; |
| A43-B39-C1; | A43-B39-C2;                | A43-B39-C3; | A43-B39-C4;                | A43-B39-C5;                | A43-B39-C6; |
| A43-B39-C7; | A43-B39-C8;                | A43-B39-C9; | A44-B39-C1;                | A44-B39-C2;                | A44-B39-C3; |
| A44-B39-C4; | A44-B39-C5;                | A44-B39-C6; | A44-B39-C7;                | A44-B39-C8;                | A44-B39-C9; |
| A45-B39-C1; | A45-B39-C2;                | A45-B39-C3; | A45-B39-C4;                | A45-B39-C5;                | A45-B39-C6; |
| A45-B39-C7; | A45-B39-C8;                | A45-B39-C9; | A46-B39-C1;                | A46-B39-C2;                | A46-B39-C3; |
| A46-B39-C4; | A46-B39-C5;                | A46-B39-C6; | A46-B39-C7;                | A46-B39-C8;                | A46-B39-C9; |
| A47-B39-C1; | A47-B39-C2;                | A47-B39-C3; | A47-B39-C4;                | A47-B39-C5;                | A47-B39-C6; |
| A47-B39-C7; | A47-B39-C8;                | A47-B39-C9; | A48-B39-C1;                | A48-B39-C2;                | A48-B39-C3; |
| A48-B39-C4; | A48-B39-C5;                | A48-B39-C6; | A48-B39-C7;                | A48-B39-C8;                | A48-B39-C9; |
| A49-B39-C1; | A49-B39-C2;                | A49-B39-C3; | A49-B39-C4;                | A49-B39-C5;                | A49-B39-C6; |
| A49-B39-C7; | A49-B39-C8;                | A49-B39-C9; | A50-B39-C1;                | A50-B39-C2;                | A50-B39-C3; |
| A50-B39-C4; | A50-B39-C5;                | A50-B39-C6; | A50-B39-C7;                | A50-B39-C8;                | A50-B39-C9; |
| 7           | 7                          | •           | •                          | •                          | •           |

| A51-B39-C1;                | A51-B39-C2;                | A51-B39-C3; | A51-B39-C4; | A51-B39-C5; | A51-B39-C6; |
|----------------------------|----------------------------|-------------|-------------|-------------|-------------|
| A51-B39-C7;                | A51-B39-C8;                | A51-B39-C9; | A52-B39-C1; | A52-B39-C2; | A52-B39-C3; |
| A52-B39-C4;                | A52-B39-C5;                | A52-B39-C6; | A52-B39-C7; | A52-B39-C8; | A52-B39-C9; |
| A53-B39-C1;                | A53-B39-C2;                | A53-B39-C3; | A53-B39-C4; | A53-B39-C5; | A53-B39-C6; |
| A53-B39-C7;                | A53-B39-C8;                | A53-B39-C9; | A54-B39-C1; | A54-B39-C2; | A54-B39-C3; |
| A54-B39-C4;                | A54-B39-C5;                | A54-B39-C6; | A54-B39-C7; | A54-B39-C8; | A54-B39-C9; |
|                            | A55-B39-C2;                | A55-B39-C3; | A55-B39-C4; | A55-B39-C5; | A55-B39-C6; |
| A55-B39-C1;                | A55-B39-C8;                | A55-B39-C9; | A56-B39-C1; | A56-B39-C2; | A56-B39-C3; |
| A55-B39-C7;<br>A56-B39-C4; | A56-B39-C5;                | A56-B39-C6; | A56-B39-C7; | A56-B39-C8; | A56-B39-C9; |
|                            | A50-B39-C3;                | A57-B39-C3; | A57-B39-C4; | A57-B39-C5; | A57-B39-C6; |
| A57-B39-C1;<br>A57-B39-C7; | A57-B39-C2;<br>A57-B39-C8; | A57-B39-C9; | A58-B39-C1; | A58-B39-C2; | A58-B39-C3; |
| A58-B39-C4;                | A58-B39-C5;                | A58-B39-C6; | A58-B39-C7; | A58-B39-C8; | A58-B39-C9; |
| A59-B39-C1;                | A59-B39-C2;                | A59-B39-C3; | A59-B39-C4; | A59-B39-C5; | A59-B39-C6; |
| A59-B39-C1;<br>A59-B39-C7; | A59-B39-C8;                | A59-B39-C9; | A60-B39-C1; | A60-B39-C2; | A60-B39-C3; |
| A60-B39-C4;                | A60-B39-C5;                | A60-B39-C6; | A60-B39-C7; | A60-B39-C8; | A60-B39-C9; |
| A61-B39-C1;                | A61-B39-C2;                | A61-B39-C3; | A61-B39-C4; | A61-B39-C5; | A61-B39-C6; |
| A61-B39-C7;                | A61-B39-C8;                | A61-B39-C9; | A62-B39-C1; | A62-B39-C2; | A62-B39-C3; |
| A62-B39-C4;                | A62-B39-C5;                | A62-B39-C6; | A62-B39-C7; | A62-B39-C8; | A62-B39-C9; |
| A63-B39-C1;                | A63-B39-C2;                | A63-B39-C3; | A63-B39-C4; | A63-B39-C5; | A63-B39-C6; |
| A63-B39-C7;                | A63-B39-C8;                | A63-B39-C9; | A64-B39-C1; | A64-B39-C2; | A64-B39-C3; |
| A64-B39-C4;                | A64-B39-C5;                | A64-B39-C6; | A64-B39-C7; | A64-B39-C8; | A64-B39-C9; |
| A65-B39-C1;                | A65-B39-C2;                | A65-B39-C3; | A65-B39-C4; | A65-B39-C5; | A65-B39-C6; |
| A65-B39-C7;                | A65-B39-C8;                | A65-B39-C9; | A66-B39-C1; | A66-B39-C2; | A66-B39-C3; |
| A66-B39-C4;                | A66-B39-C5;                | A66-B39-C6; | A66-B39-C7; | A66-B39-C8; | A66-B39-C9; |
| A67-B39-C1;                | A67-B39-C2;                | A67-B39-C3; | A67-B39-C4; | A67-B39-C5; | A67-B39-C6; |
| A67-B39-C1;<br>A67-B39-C7; | A67-B39-C2;                | A67-B39-C9; | A68-B39-C1; | A68-B39-C2; | A68-B39-C3; |
| A68-B39-C4;                | A68-B39-C5;                | A68-B39-C6; | A68-B39-C7; | A68-B39-C8; | A68-B39-C9; |
| A69-B39-C1;                | A69-B39-C2;                | A69-B39-C3; | A69-B39-C4; | A69-B39-C5; | A69-B39-C6; |
| A69-B39-C7;                | A69-B39-C8;                | A69-B39-C9; | A70-B39-C1; | A70-B39-C2; | A70-B39-C3; |
| A70-B39-C4;                | A70-B39-C5;                | A70-B39-C6; | A70-B39-C7; | A70-B39-C8; | A70-B39-C9; |
| A71-B39-C1;                | A71-B39-C2;                | A71-B39-C3; | A71-B39-C4; | A71-B39-C5; | A71-B39-C6; |
| A71-B39-C7;                | A71-B39-C8;                | A71-B39-C9; | A1-B40-C1;  | A1-B40-C2;  | A1-B40-C3;  |
| A1-B40-C4;                 | A1-B40-C5;                 | A1-B40-C6;  | A1-B40-C7;  | A1-B40-C8;  | A1-B40-C9;  |
| A2-B40-C1;                 | A2-B40-C2;                 | A2-B40-C3;  | A2-B40-C4;  | A2-B40-C5;  | A2-B40-C6;  |
| A2-B40-C7;                 | A2-B40-C8;                 | A2-B40-C9;  | A3-B40-C1;  | A3-B40-C2;  | A3-B40-C3;  |
| A3-B40-C4;                 | A3-B40-C5;                 | A3-B40-C6;  | A3-B40-C7;  | A3-B40-C8;  | A3-B40-C9;  |
| A4-B40-C1;                 | A4-B40-C2;                 | A4-B40-C3;  | A4-B40-C4;  | A4-B40-C5;  | A4-B40-C6;  |
| A4-B40-C7;                 | A4-B40-C8;                 | A4-B40-C9;  | A5-B40-C1;  | A5-B40-C2;  | A5-B40-C3;  |
| A5-B40-C4;                 | A5-B40-C5;                 | A5-B40-C6;  | A5-B40-C7;  | A5-B40-C8;  | A5-B40-C9;  |
| A6-B40-C1;                 | A6-B40-C2;                 | A6-B40-C3;  | A6-B40-C4;  | A6-B40-C5;  | A6-B40-C6;  |
| A6-B40-C7;                 | A6-B40-C8;                 | A6-B40-C9;  | A7-B40-C1;  | A7-B40-C2;  | A7-B40-C3;  |
| A7-B40-C4;                 | A7-B40-C5;                 | A7-B40-C6;  | A7-B40-C7;  | A7-B40-C8;  | A7-B40-C9;  |
| A8-B40-C1;                 | A8-B40-C2;                 | A8-B40-C3;  | A8-B40-C4;  | A8-B40-C5;  | A8-B40-C6;  |
| A8-B40-C7;                 | A8-B40-C8;                 | A8-B40-C9;  | A9-B40-C1;  | A9-B40-C2;  | A9-B40-C3;  |
| A9-B40-C4;                 | A9-B40-C5;                 | A9-B40-C6;  | A9-B40-C7;  | A9-B40-C8;  | A9-B40-C9;  |
| A10-B40-C1;                | A10-B40-C2;                | A10-B40-C3; | A10-B40-C4; | A10-B40-C5; | A10-B40-C6; |
| A10-B40-C7;                | A10-B40-C8;                | A10-B40-C9; | A11-B40-C1; | A11-B40-C2; | A11-B40-C3; |
| A11-B40-C4;                | A11-B40-C5;                | A11-B40-C6; | A11-B40-C7; | A11-B40-C8; | A11-B40-C9; |
| A12-B40-C1;                | A12-B40-C2;                | A12-B40-C3; | A12-B40-C4; | A12-B40-C5; | A12-B40-C6; |
| A12-B40-C7;                | A12-B40-C8;                | A12-B40-C9; | A13-B40-C1; | A13-B40-C2; | A13-B40-C3; |
| A13-B40-C4;                | A13-B40-C5;                | A13-B40-C6; | A13-B40-C7; | A13-B40-C8; | A13-B40-C9; |
| A14-B40-C1;                | A14-B40-C2;                | A14-B40-C3; | A14-B40-C4; | A14-B40-C5; | A14-B40-C6; |
| A14-B40-C7;                | A14-B40-C8;                | A14-B40-C9; | A15-B40-C1; | A15-B40-C2; | A15-B40-C3; |
| A15-B40-C4;                | A15-B40-C5;                | A15-B40-C6; | A15-B40-C7; | A15-B40-C8; | A15-B40-C9; |
| A16-B40-C1;                | A16-B40-C2;                | A16-B40-C3; | A16-B40-C4; | A16-B40-C5; | A16-B40-C6; |
|                            |                            |             |             |             |             |

| A16-B40-C7; | A16-B40-C8; | A16-B40-C9; | A17-B40-C1;                             | A17-B40-C2; | A17-B40-C3; |
|-------------|-------------|-------------|---|-------------|-------------|
| A17-B40-C4; | A17-B40-C5; | A17-B40-C6; | A17-B40-C7;                             | A17-B40-C8; | A17-B40-C9; |
| A18-B40-C1; | A18-B40-C2; | A18-B40-C3; | A18-B40-C4;                             | A18-B40-C5; | A18-B40-C6; |
| A18-B40-C7; | A18-B40-C8; | A18-B40-C9; | A19-B40-C1;                             | A19-B40-C2; | A19-B40-C3; |
| A19-B40-C4; | A19-B40-C5; | A19-B40-C6; | A19-B40-C7;                             | A19-B40-C8; | A19-B40-C9; |
| A20-B40-C1; | A20-B40-C2; | A20-B40-C3; | A20-B40-C4;                             | A20-B40-C5; | A20-B40-C6; |
| A20-B40-C7; | A20-B40-C8; | A20-B40-C9; | A21-B40-C1;                             | A21-B40-C2; | A21-B40-C3; |
| A21-B40-C4; | A21-B40-C5; | A21-B40-C6; | A21-B40-C7;                             | A21-B40-C8; | A21-B40-C9; |
| A22-B40-C1; | A22-B40-C2; | A22-B40-C3; | A22-B40-C4;                             | A22-B40-C5; | A22-B40-C6; |
| A22-B40-C7; | A22-B40-C8; | A22-B40-C9; | A23-B40-C1;                             | A23-B40-C2; | A23-B40-C3; |
| A23-B40-C4; | A23-B40-C5; | A23-B40-C6; | A23-B40-C7;                             | A23-B40-C8; | A23-B40-C9; |
| A24-B40-C1; | A24-B40-C2; | A24-B40-C3; | A24-B40-C4;                             | A24-B40-C5; | A24-B40-C6; |
| A24-B40-C7; | A24-B40-C8; | A24-B40-C9; | A25-B40-C1;                             | A25-B40-C2; | A25-B40-C3; |
| A25-B40-C4; | A25-B40-C5; | A25-B40-C6; | A25-B40-C7;                             | A25-B40-C8; | A25-B40-C9; |
| A26-B40-C1; | A26-B40-C2; | A26-B40-C3; | A26-B40-C4;                             | A26-B40-C5; | A26-B40-C6; |
| A26-B40-C7; | A26-B40-C8; | A26-B40-C9; | A27-B40-C1;                             | A27-B40-C2; | A27-B40-C3; |
| A27-B40-C4; | A27-B40-C5; | A27-B40-C6; | A27-B40-C7;                             | A27-B40-C8; | A27-B40-C9; |
| A28-B40-C1; | A28-B40-C2; | A28-B40-C3; | A28-B40-C4;                             | A28-B40-C5; | A28-B40-C6; |
| A28-B40-C7; | A28-B40-C8; | A28-B40-C9; | A29-B40-C1;                             | A29-B40-C2; | A29-B40-C3; |
| A29-B40-C4; | A29-B40-C5; | A29-B40-C6; | A29-B40-C7;                             | A29-B40-C8; | A29-B40-C9; |
| A30-B40-C1; | A30-B40-C2; | A30-B40-C3; | A30-B40-C4;                             | A30-B40-C5; | A30-B40-C6; |
| A30-B40-C7; | A30-B40-C8; | A30-B40-C9; | A31-B40-C1;                             | A31-B40-C2; | A31-B40-C3; |
| A31-B40-C4; | A31-B40-C5; | A31-B40-C6; | A31-B40-C7;                             | A31-B40-C8; | A31-B40-C9; |
| A32-B40-C1; | A32-B40-C2; | A32-B40-C3; | A32-B40-C4;                             | A32-B40-C5; | A32-B40-C6; |
| A32-B40-C7; | A32-B40-C8; | A32-B40-C9; | A33-B40-C1;                             | A33-B40-C2; | A33-B40-C3; |
| A33-B40-C4; | A33-B40-C5; | A33-B40-C6; | A33-B40-C7;                             | A33-B40-C8; | A33-B40-C9; |
| A34-B40-C1; | A34-B40-C2; | A34-B40-C3; | A34-B40-C4;                             | A34-B40-C5; | A34-B40-C6; |
| A34-B40-C7; | A34-B40-C8; | A34-B40-C9; | A35-B40-C1;                             | A35-B40-C2; | A35-B40-C3; |
| A35-B40-C4; | A35-B40-C5; | A35-B40-C6; | A35-B40-C7;                             | A35-B40-C8; | A35-B40-C9; |
| A36-B40-C1; | A36-B40-C2; | A36-B40-C3; | A36-B40-C4;                             | A36-B40-C5; | A36-B40-C6; |
| A36-B40-C7; | A36-B40-C8; | A36-B40-C9; | A37-B40-C1;                             | A37-B40-C2; | A37-B40-C3; |
| A37-B40-C4; | A37-B40-C5; | A37-B40-C6; | A37-B40-C7;                             | A37-B40-C8; | A37-B40-C9; |
| A38-B40-C1; | A38-B40-C2; | A38-B40-C3; | A38-B40-C4;                             | A38-B40-C5; | A38-B40-C6; |
| A38-B40-C7; | A38-B40-C8; | A38-B40-C9; | A39-B40-C1;                             | A39-B40-C2; | A39-B40-C3; |
| A39-B40-C4; | A39-B40-C5; | A39-B40-C6; | A39-B40-C7;                             | A39-B40-C8; | A39-B40-C9; |
| A40-B40-C1; | A40-B40-C2; | A40-B40-C3; | A40-B40-C4;                             | A40-B40-C5; | A40-B40-C6; |
| A40-B40-C7; | A40-B40-C8; | A40-B40-C9; | A41-B40-C1;                             | A41-B40-C2; | A41-B40-C3; |
| A41-B40-C4; | A41-B40-C5; | A41-B40-C6; | A41-B40-C7;                             | A41-B40-C8; | A41-B40-C9; |
| A42-B40-C1; | A42-B40-C2; | A42-B40-C3; | A42-B40-C4;                             | A42-B40-C5; | A42-B40-C6; |
| A42-B40-C7; | A42-B40-C8; | A42-B40-C9; | A43-B40-C1;                             | A43-B40-C2; | A43-B40-C3; |
| A43-B40-C4; | A43-B40-C5; | A43-B40-C6; | A43-B40-C7;                             | A43-B40-C8; | A43-B40-C9; |
| A44-B40-C1; | A44-B40-C2; | A44-B40-C3; | A44-B40-C4;                             | A44-B40-C5; | A44-B40-C6; |
| A44-B40-C7; | A44-B40-C8; | A44-B40-C9; | A45-B40-C1;                             | A45-B40-C2; | A45-B40-C3; |
| A45-B40-C4; | A45-B40-C5; | A45-B40-C6; | A45-B40-C7;                             | A45-B40-C8; | A45-B40-C9; |
| A46-B40-C1; | A46-B40-C2; | A46-B40-C3; | A46-B40-C4;                             | A46-B40-C5; | A46-B40-C6; |
| A46-B40-C7; | A46-B40-C8; | A46-B40-C9; | A47-B40-C1;                             | A47-B40-C2; | A47-B40-C3; |
| A47-B40-C4; | A47-B40-C5; | A47-B40-C6; | A47-B40-C7;                             | A47-B40-C8; | A47-B40-C9; |
| A48-B40-C1; | A48-B40-C2; | A48-B40-C3; | A48-B40-C4;                             | A48-B40-C5; | A48-B40-C6; |
| A48-B40-C7; | A48-B40-C8; | A48-B40-C9; | A49-B40-C1;                             | A49-B40-C2; | A49-B40-C3; |
| A49-B40-C4; | A49-B40-C5; | A49-B40-C6; | A49-B40-C7;                             | A49-B40-C8; | A49-B40-C9; |
| A50-B40-C1; | A50-B40-C2; | A50-B40-C3; | A50-B40-C4;                             | A50-B40-C5; | A50-B40-C6; |
| A50-B40-C7; | A50-B40-C8; | A50-B40-C9; | A51-B40-C1;                             | A51-B40-C2; | A51-B40-C3; |
| A51-B40-C4; | A51-B40-C5; | A51-B40-C6; | A51-B40-C7;                             | A51-B40-C8; | A51-B40-C9; |
| A52-B40-C1; | A52-B40-C2; | A52-B40-C3; | A52-B40-C4;                             | A52-B40-C5; | A52-B40-C6; |
| A52-B40-C7; | A52-B40-C8; | A52-B40-C9; | A53-B40-C1;                             | A53-B40-C2; | A53-B40-C3; |
| ,           |             |             | - · · · · · · · · · · · · · · · · · · · | ,           | ,           |

| A53-B40-C4; | A53-B40-C5; | A53-B40-C6; | A53-B40-C7; | A53-B40-C8; | A53-B40-C9;                |
|-------------|-------------|-------------|-------------|-------------|----------------------------|
| A54-B40-C1; | A54-B40-C2; | A54-B40-C3; | A54-B40-C4; | A54-B40-C5; | A54-B40-C6;                |
| A54-B40-C7; |             | A54-B40-C9; | A55-B40-C1; | A55-B40-C2; | A55-B40-C3;                |
|             | A54-B40-C8; |             |             |             |                            |
| A55-B40-C4; | A55-B40-C5; | A55-B40-C6; | A55-B40-C7; | A55-B40-C8; | A55-B40-C9;                |
| A56-B40-C1; | A56-B40-C2; | A56-B40-C3; | A56-B40-C4; | A56-B40-C5; | A56-B40-C6;                |
| A56-B40-C7; | A56-B40-C8; | A56-B40-C9; | A57-B40-C1; | A57-B40-C2; | A57-B40-C3;                |
| A57-B40-C4; | A57-B40-C5; | A57-B40-C6; | A57-B40-C7; | A57-B40-C8; | A57-B40-C9;                |
| A58-B40-C1; | A58-B40-C2; | A58-B40-C3; | A58-B40-C4; | A58-B40-C5; | A58-B40-C6;                |
| A58-B40-C7; | A58-B40-C8; | A58-B40-C9; | A59-B40-C1; | A59-B40-C2; | A59-B40-C3;                |
| A59-B40-C4; | A59-B40-C5; | A59-B40-C6; | A59-B40-C7; | A59-B40-C8; | A59-B40-C9;                |
| A60-B40-C1; | A60-B40-C2; | A60-B40-C3; | A60-B40-C4; | A60-B40-C5; | A60-B40-C6;                |
| A60-B40-C7; | A60-B40-C8; | A60-B40-C9; | A61-B40-C1; | A61-B40-C2; | A61-B40-C3;                |
| A61-B40-C4; | A61-B40-C5; | A61-B40-C6; | A61-B40-C7; | A61-B40-C8; | A61-B40-C9;                |
| A62-B40-C1; | A62-B40-C2; | A62-B40-C3; | A62-B40-C4; | A62-B40-C5; | A62-B40-C6;                |
| A62-B40-C7; | A62-B40-C8; | A62-B40-C9; | A63-B40-C1; | A63-B40-C2; | A63-B40-C3;                |
| A63-B40-C4; | A63-B40-C5; | A63-B40-C6; | A63-B40-C7; | A63-B40-C8; | A63-B40-C9;                |
| A64-B40-C1; | A64-B40-C2; | A64-B40-C3; | A64-B40-C4; | A64-B40-C5; | A64-B40-C6;                |
| A64-B40-C7; | A64-B40-C8; | A64-B40-C9; | A65-B40-C1; | A65-B40-C2; | A65-B40-C3;                |
| A65-B40-C4; | A65-B40-C5; | A65-B40-C6; | A65-B40-C7; | A65-B40-C8; | A65-B40-C9;                |
| A66-B40-C1; | A66-B40-C2; | A66-B40-C3; | A66-B40-C4; | A66-B40-C5; | A66-B40-C6;                |
| A66-B40-C7; | A66-B40-C8; | A66-B40-C9; | A67-B40-C1; | A67-B40-C2; | A67-B40-C3;                |
|             |             |             |             | A67-B40-C2; |                            |
| A67-B40-C4; | A67-B40-C5; | A67-B40-C6; | A67-B40-C7; |             | A67-B40-C9;                |
| A68-B40-C1; | A68-B40-C2; | A68-B40-C3; | A68-B40-C4; | A68-B40-C5; | A68-B40-C6;                |
| A68-B40-C7; | A68-B40-C8; | A68-B40-C9; | A69-B40-C1; | A69-B40-C2; | A69-B40-C3;                |
| A69-B40-C4; | A69-B40-C5; | A69-B40-C6; | A69-B40-C7; | A69-B40-C8; | A69-B40-C9;                |
| A70-B40-C1; | A70-B40-C2; | A70-B40-C3; | A70-B40-C4; | A70-B40-C5; | A70-B40-C6;                |
| A70-B40-C7; | A70-B40-C8; | A70-B40-C9; | A71-B40-C1; | A71-B40-C2; | A71-B40-C3;                |
| A71-B40-C4; | A71-B40-C5; | A71-B40-C6; | A71-B40-C7; | A71-B40-C8; | A71-B40-C9;                |
| A1-B41-C1;  | A1-B41-C2;  | A1-B41-C3;  | A1-B41-C4;  | A1-B41-C5;  | A1-B41-C6;                 |
| A1-B41-C7;  | A1-B41-C8;  | A1-B41-C9;  | A2-B41-C1;  | A2-B41-C2;  | A2-B41-C3;                 |
| A2-B41-C4;  | A2-B41-C5;  | A2-B41-C6;  | A2-B41-C7;  | A2-B41-C8;  | A2-B41-C9;                 |
| A3-B41-C1;  | A3-B41-C2;  | A3-B41-C3;  | A3-B41-C4;  | A3-B41-C5;  | A3-B41-C6;                 |
| A3-B41-C7;  | A3-B41-C8;  | A3-B41-C9;  | A4-B41-C1;  | A4-B41-C2;  | A4-B41-C3;                 |
| A4-B41-C4;  | A4-B41-C5;  | A4-B41-C6;  | A4-B41-C7;  | A4-B41-C8;  | A4-B41-C9;                 |
| A5-B41-C1;  | A5-B41-C2;  | A5-B41-C3;  | A5-B41-C4;  | A5-B41-C5;  | A5-B41-C6;                 |
| A5-B41-C7;  | A5-B41-C8;  | A5-B41-C9;  | A6-B41-C1;  | A6-B41-C2;  | A6-B41-C3;                 |
| A6-B41-C4;  | A6-B41-C5;  | A6-B41-C6;  | A6-B41-C7;  | A6-B41-C8:  | A6-B41-C9;                 |
| A7-B41-C1;  | A7-B41-C2;  | A7-B41-C3;  | A7-B41-C4;  | A7-B41-C5;  | A7-B41-C6;                 |
| A7-B41-C7;  | A7-B41-C8;  | A7-B41-C9;  | A8-B41-C1;  | A8-B41-C2;  | A8-B41-C3;                 |
| A8-B41-C4;  | A8-B41-C5;  | A8-B41-C6;  | A8-B41-C7;  | A8-B41-C8;  | A8-B41-C9;                 |
| A9-B41-C1;  | A9-B41-C2;  | A9-B41-C3;  | A9-B41-C4;  | A9-B41-C5;  | A9-B41-C6;                 |
| A9-B41-C7;  | A9-B41-C2;  | A9-B41-C9;  | A10-B41-C1; | A10-B41-C2; | A10-B41-C3;                |
| A10-B41-C4; | A10-B41-C5; | A10-B41-C6; | A10-B41-C1; | A10-B41-C2; | A10-B41-C9;                |
|             | A11-B41-C2; |             | A11-B41-C4; | A11-B41-C5; |                            |
| A11-B41-C1; | •           | A11-B41-C3; | •           | A11-B41-C3; | A11-B41-C6;<br>A12-B41-C3; |
| A11-B41-C7; | A11-B41-C8; | A11-B41-C9; | A12-B41-C1; | •           |                            |
| A12-B41-C4; | A12-B41-C5; | A12-B41-C6; | A12-B41-C7; | A12-B41-C8; | A12-B41-C9;                |
| A13-B41-C1; | A13-B41-C2; | A13-B41-C3; | A13-B41-C4; | A13-B41-C5; | A13-B41-C6;                |
| A13-B41-C7; | A13-B41-C8; | A13-B41-C9; | A14-B41-C1; | A14-B41-C2; | A14-B41-C3;                |
| A14-B41-C4; | A14-B41-C5; | A14-B41-C6; | A14-B41-C7; | A14-B41-C8; | A14-B41-C9;                |
| A15-B41-C1; | A15-B41-C2; | A15-B41-C3; | A15-B41-C4; | A15-B41-C5; | A15-B41-C6;                |
| A15-B41-C7; | A15-B41-C8; | A15-B41-C9; | A16-B41-C1; | A16-B41-C2; | A16-B41-C3;                |
| A16-B41-C4; | A16-B41-C5; | A16-B41-C6; | A16-B41-C7; | A16-B41-C8; | A16-B41-C9;                |
| A17-B41-C1; | A17-B41-C2; | A17-B41-C3; | A17-B41-C4; | A17-B41-C5; | A17-B41-C6;                |
| A17-B41-C7; | A17-B41-C8; | A17-B41-C9; | A18-B41-C1; | A18-B41-C2; | A18-B41-C3;                |
| A18-B41-C4; | A18-B41-C5; | A18-B41-C6; | A18-B41-C7; | A18-B41-C8; | A18-B41-C9;                |
|             |             |             |             |             |                            |

| A19-B41-C1;                | A19-B41-C2;                | A19-B41-C3;                | A19-B41-C4;                | A19-B41-C5;                | A19-B41-C6;                |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A19-B41-C7;                | A19-B41-C8;                | A19-B41-C9;                | A20-B41-C1;                | A20-B41-C2;                | A20-B41-C3;                |
| A20-B41-C4;                | A20-B41-C5;                | A20-B41-C6;                | A20-B41-C7;                | A20-B41-C8;                | A20-B41-C9;                |
| A21-B41-C1;                | A21-B41-C2;                | A21-B41-C3;                | A21-B41-C4;                | A21-B41-C5;                | A21-B41-C6;                |
| A21-B41-C7;                | A21-B41-C8;                | A21-B41-C9;                | A22-B41-C1;                | A22-B41-C2;                | A22-B41-C3;                |
| A22-B41-C4;                | A22-B41-C5;                | A22-B41-C6;                | A22-B41-C7;                | A22-B41-C8;                | A22-B41-C9;                |
| A23-B41-C1;                | A23-B41-C2;                | A23-B41-C3;                | A23-B41-C4;                | A23-B41-C5;                | A23-B41-C6;                |
| A23-B41-C7;                | A23-B41-C8;                | A23-B41-C9;                | A24-B41-C1;                | A24-B41-C2;                | A24-B41-C3;                |
| A24-B41-C4;                | A24-B41-C5;                | A24-B41-C6;                | A24-B41-C7;                | A24-B41-C8;                | A24-B41-C9;                |
| A25-B41-C1;                | A25-B41-C2;                | A25-B41-C3;                | A25-B41-C4;                | A25-B41-C5;                | A25-B41-C6;                |
| A25-B41-C7;                | A25-B41-C8;                | A25-B41-C9;                | A26-B41-C1;                | A26-B41-C2;                | A26-B41-C3;                |
| A26-B41-C4;                | A26-B41-C5;                | A26-B41-C6;                | A26-B41-C7;                | A26-B41-C8;                | A26-B41-C9;                |
| A27-B41-C1;                | A27-B41-C2;                | A27-B41-C3;                | A27-B41-C4;                | A27-B41-C5;                | A27-B41-C6;                |
| A27-B41-C7;                | A27-B41-C8;                | A27-B41-C9;                | A28-B41-C1;                | A28-B41-C2;                | A28-B41-C3;                |
| A28-B41-C4;                | A28-B41-C5;                | A28-B41-C6;                | A28-B41-C7;                | A28-B41-C8;                | A28-B41-C9;                |
| A29-B41-C1;                | A29-B41-C2;                | A29-B41-C3;                | A29-B41-C4;                | A29-B41-C5;                | A29-B41-C6;                |
| A29-B41-C7;                | A29-B41-C2;                | A29-B41-C9;                | A30-B41-C1;                | A30-B41-C2;                | A30-B41-C3;                |
| A30-B41-C4;                | A30-B41-C5;                | A30-B41-C6;                | A30-B41-C1;                | A30-B41-C8;                | A30-B41-C9;                |
| A31-B41-C1;                | A31-B41-C2;                | A31-B41-C3;                | A31-B41-C4;                | A31-B41-C5;                | A31-B41-C6;                |
| A31-B41-C7;                | A31-B41-C8;                | A31-B41-C9;                | A32-B41-C1;                | A32-B41-C2;                | A32-B41-C3;                |
| A32-B41-C4;                | A32-B41-C5;                | A32-B41-C6;                | A32-B41-C1;                | A32-B41-C8;                | A32-B41-C9;                |
| A33-B41-C1;                | A33-B41-C2;                | A33-B41-C3;                | A33-B41-C4;                | A33-B41-C5;                | A33-B41-C6;                |
| A33-B41-C7;                | A33-B41-C8;                | A33-B41-C9;                | A34-B41-C1;                | A34-B41-C2;                | A34-B41-C3;                |
| A34-B41-C4;                | A34-B41-C5;                | A34-B41-C6;                | A34-B41-C1;                | A34-B41-C2;                | A34-B41-C9;                |
| A35-B41-C1;                | A35-B41-C2;                | A35-B41-C3;                | A35-B41-C4;                | A35-B41-C5;                | A35-B41-C6;                |
| A35-B41-C7;                | A35-B41-C2;                | A35-B41-C9;                | A36-B41-C1;                | A36-B41-C3;                | A36-B41-C3;                |
| A36-B41-C4;                | A36-B41-C5;                | A36-B41-C6;                | A36-B41-C1;                | A36-B41-C2;                | A36-B41-C9;                |
| A30-B41-C4;                | A30-B41-C3;<br>A37-B41-C2; | A30-B41-C0;<br>A37-B41-C3; | A30-B41-C7;<br>A37-B41-C4; | A30-B41-C8;<br>A37-B41-C5; | A30-B41-C9;<br>A37-B41-C6; |
| A37-B41-C1;                | A37-B41-C2;<br>A37-B41-C8; |                            | A38-B41-C1;                | A37-B41-C3;<br>A38-B41-C2; | A38-B41-C3;                |
| A37-B41-C7;                | A37-B41-C8;<br>A38-B41-C5; | A37-B41-C9;<br>A38-B41-C6; | A38-B41-C1;                | A38-B41-C2;<br>A38-B41-C8; | A38-B41-C9;                |
| A39-B41-C1;                | A39-B41-C3;                | A39-B41-C3;                | A39-B41-C4;                | A39-B41-C5;                | A39-B41-C6;                |
| A39-B41-C1;                | A39-B41-C2;                | A39-B41-C3;                | A40-B41-C1;                | A40-B41-C2;                | A40-B41-C3;                |
| A40-B41-C4;                | A40-B41-C5;                | A40-B41-C6;                | A40-B41-C1;<br>A40-B41-C7; | A40-B41-C2;<br>A40-B41-C8; | A40-B41-C9;                |
| A41-B41-C1;                | A40-B41-C3;<br>A41-B41-C2; | A41-B41-C3;                | A41-B41-C4;                | A41-B41-C5;                | A41-B41-C6;                |
| A41-B41-C7;                | A41-B41-C2;                | A41-B41-C9;                | A42-B41-C1;                | A42-B41-C2;                | A42-B41-C3;                |
| A42-B41-C4;                | A42-B41-C5;                | A42-B41-C6;                | A42-B41-C1;                | A42-B41-C2;                | A42-B41-C9;                |
| A43-B41-C1;                | A43-B41-C2;                | A43-B41-C3;                | A43-B41-C4;                | A43-B41-C5;                | A43-B41-C6;                |
| A43-B41-C7;                | A43-B41-C2;                | A43-B41-C9;                | A44-B41-C1;                | A44-B41-C2;                | A44-B41-C3;                |
| A44-B41-C4;                | A44-B41-C5;                | A44-B41-C6;                | A44-B41-C1;                | A44-B41-C2;                | A44-B41-C9;                |
| A45-B41-C1;                | A45-B41-C2;                | A45-B41-C3;                | A45-B41-C4;                | A45-B41-C5;                | A45-B41-C6;                |
| A45-B41-C7;                | A45-B41-C8;                | A45-B41-C9;                | A46-B41-C1;                | A46-B41-C2;                | A46-B41-C3;                |
| A46-B41-C4;                | A46-B41-C5;                | A46-B41-C6;                | A46-B41-C7;                | A46-B41-C8;                | A46-B41-C9;                |
| A47-B41-C1;                | A47-B41-C2;                | A47-B41-C3;                | A47-B41-C4;                | A47-B41-C5;                | A47-B41-C6;                |
| A47-B41-C1;                | A47-B41-C2;<br>A47-B41-C8; | A47-B41-C9;                | A48-B41-C1;                | A48-B41-C2;                | A48-B41-C3;                |
| A48-B41-C4;                | A48-B41-C5;                | A48-B41-C6;                | A48-B41-C7;                | A48-B41-C8;                | A48-B41-C9;                |
| A49-B41-C1;                | A49-B41-C3;                | A49-B41-C3;                | A49-B41-C4;                | A49-B41-C5;                | A49-B41-C6;                |
| A49-B41-C7;                | A49-B41-C2;                | A49-B41-C9;                | A50-B41-C1;                | A50-B41-C2;                | A50-B41-C3;                |
| A50-B41-C4;                | A50-B41-C5;                | A50-B41-C6;                | A50-B41-C1;<br>A50-B41-C7; | A50-B41-C2;<br>A50-B41-C8; | A50-B41-C9;                |
| A50-B41-C4;<br>A51-B41-C1; | A50-B41-C3;<br>A51-B41-C2; | A50-B41-C0;<br>A51-B41-C3; | •                          | A50-B41-C8;<br>A51-B41-C5; | A50-B41-C9;<br>A51-B41-C6; |
| A51-B41-C1;<br>A51-B41-C7; | A51-B41-C2;<br>A51-B41-C8; | A51-B41-C9;                | A51-B41-C4;<br>A52-B41-C1; | A51-B41-C3;<br>A52-B41-C2; | A51-B41-C6;<br>A52-B41-C3; |
| A51-B41-C7;<br>A52-B41-C4; | A51-B41-C6;<br>A52-B41-C5; | A51-B41-C9;<br>A52-B41-C6; |                            | A52-B41-C2;<br>A52-B41-C8; | A52-B41-C3;<br>A52-B41-C9; |
| A53-B41-C1;                | A52-B41-C3;<br>A53-B41-C2; |                            | A52-B41-C7;                | A52-B41-C6;<br>A53-B41-C5; |                            |
| A53-B41-C1;<br>A53-B41-C7; | A53-B41-C2;<br>A53-B41-C8; | A53-B41-C3;<br>A53-B41-C9; | A53-B41-C4;<br>A54-B41-C1; | A54-B41-C2;                | A53-B41-C6;<br>A54-B41-C3; |
| A54-B41-C4;                | A53-B41-C6;<br>A54-B41-C5; | A53-B41-C9;<br>A54-B41-C6; | A54-B41-C1;<br>A54-B41-C7; | A54-B41-C2;<br>A54-B41-C8; | A54-B41-C9;                |
| A55-B41-C1;                | A54-B41-C3;<br>A55-B41-C2; | A54-B41-C0;<br>A55-B41-C3; | A54-B41-C7;<br>A55-B41-C4; | A54-B41-C8;<br>A55-B41-C5; | A54-B41-C9;<br>A55-B41-C6; |
| 773-D41-C1;                | ADJ-041-C2;                | AJJ-B41-C3;                | MJJ-D41-C4;                | A33-B41-C3;                | AJJ-B41-C0;                |

| 155 D 41 GG | 4.55 D.41 GO | 4.55 D.41 GO | 4.5.6 D.41. G.1 | 456 D41 GO  | 4.5.C D.41. CO. |
|-------------|--------------|--------------|-----------------|-------------|-----------------|
| A55-B41-C7; | A55-B41-C8;  | A55-B41-C9;  | A56-B41-C1;     | A56-B41-C2; | A56-B41-C3;     |
| A56-B41-C4; | A56-B41-C5;  | A56-B41-C6;  | A56-B41-C7;     | A56-B41-C8; | A56-B41-C9;     |
| A57-B41-C1; | A57-B41-C2;  | A57-B41-C3;  | A57-B41-C4;     | A57-B41-C5; | A57-B41-C6;     |
| A57-B41-C7; | A57-B41-C8;  | A57-B41-C9;  | A58-B41-C1;     | A58-B41-C2; | A58-B41-C3;     |
| A58-B41-C4; | A58-B41-C5;  | A58-B41-C6;  | A58-B41-C7;     | A58-B41-C8; | A58-B41-C9;     |
| A59-B41-C1; | A59-B41-C2;  | A59-B41-C3;  | A59-B41-C4;     | A59-B41-C5; | A59-B41-C6;     |
| A59-B41-C7; | A59-B41-C8;  | A59-B41-C9;  | A60-B41-C1;     | A60-B41-C2; | A60-B41-C3;     |
| A60-B41-C4; | A60-B41-C5;  | A60-B41-C6;  | A60-B41-C7;     | A60-B41-C8; | A60-B41-C9;     |
| A61-B41-C1; | A61-B41-C2;  | A61-B41-C3;  | A61-B41-C4;     | A61-B41-C5; | A61-B41-C6;     |
| A61-B41-C7; | A61-B41-C8;  | A61-B41-C9;  | A62-B41-C1;     | A62-B41-C2; | A62-B41-C3;     |
| A62-B41-C4; | A62-B41-C5;  | A62-B41-C6;  | A62-B41-C7;     | A62-B41-C8; | A62-B41-C9;     |
| A63-B41-C1; | A63-B41-C2;  | A63-B41-C3;  | A63-B41-C4;     | A63-B41-C5; | A63-B41-C6;     |
| A63-B41-C7; | A63-B41-C8;  | A63-B41-C9;  | A64-B41-C1;     | A64-B41-C2; | A64-B41-C3;     |
| A64-B41-C4; | A64-B41-C5;  | A64-B41-C6;  | A64-B41-C7;     | A64-B41-C8; | A64-B41-C9;     |
| A65-B41-C1; | A65-B41-C2;  | A65-B41-C3;  | A65-B41-C4;     | A65-B41-C5; | A65-B41-C6;     |
| A65-B41-C7; | A65-B41-C8;  | A65-B41-C9;  | A66-B41-C1;     | A66-B41-C2; | A66-B41-C3;     |
| A66-B41-C4; | A66-B41-C5;  | A66-B41-C6;  | A66-B41-C7;     | A66-B41-C8; | A66-B41-C9;     |
|             | A67-B41-C2;  | A67-B41-C3;  | A67-B41-C4;     | A67-B41-C5; | A67-B41-C6;     |
| A67-B41-C1; | ^            |              | *               |             |                 |
| A67-B41-C7; | A67-B41-C8;  | A67-B41-C9;  | A68-B41-C1;     | A68-B41-C2; | A68-B41-C3;     |
| A68-B41-C4; | A68-B41-C5;  | A68-B41-C6;  | A68-B41-C7;     | A68-B41-C8; | A68-B41-C9;     |
| A69-B41-C1; | A69-B41-C2;  | A69-B41-C3;  | A69-B41-C4;     | A69-B41-C5; | A69-B41-C6;     |
| A69-B41-C7; | A69-B41-C8;  | A69-B41-C9;  | A70-B41-C1;     | A70-B41-C2; | A70-B41-C3;     |
| A70-B41-C4; | A70-B41-C5;  | A70-B41-C6;  | A70-B41-C7;     | A70-B41-C8; | A70-B41-C9;     |
| A71-B41-C1; | A71-B41-C2;  | A71-B41-C3;  | A71-B41-C4;     | A71-B41-C5; | A71-B41-C6;     |
| A71-B41-C7; | A71-B41-C8;  | A71-B41-C9;  | A1-B42-C1;      | A1-B42-C2;  | A1-B42-C3;      |
| A1-B42-C4;  | A1-B42-C5;   | A1-B42-C6;   | A1-B42-C7;      | A1-B42-C8;  | A1-B42-C9;      |
| A2-B42-C1;  | A2-B42-C2;   | A2-B42-C3;   | A2-B42-C4;      | A2-B42-C5;  | A2-B42-C6;      |
| A2-B42-C7;  | A2-B42-C8;   | A2-B42-C9;   | A3-B42-C1;      | A3-B42-C2;  | A3-B42-C3;      |
| A3-B42-C4;  | A3-B42-C5;   | A3-B42-C6;   | A3-B42-C7;      | A3-B42-C8;  | A3-B42-C9;      |
| A4-B42-C1;  | A4-B42-C2;   | A4-B42-C3;   | A4-B42-C4;      | A4-B42-C5;  | A4-B42-C6;      |
| A4-B42-C7;  | A4-B42-C8;   | A4-B42-C9;   | A5-B42-C1;      | A5-B42-C2;  | A5-B42-C3;      |
| A5-B42-C4;  | A5-B42-C5;   | A5-B42-C6;   | A5-B42-C7;      | A5-B42-C8;  | A5-B42-C9;      |
| A6-B42-C1;  | A6-B42-C2;   | A6-B42-C3;   | A6-B42-C4;      | A6-B42-C5;  | A6-B42-C6;      |
| A6-B42-C7;  | A6-B42-C8;   | A6-B42-C9;   | A7-B42-C1;      | A7-B42-C2;  | A7-B42-C3;      |
| A7-B42-C4;  | A7-B42-C5;   | A7-B42-C6;   | A7-B42-C7;      | A7-B42-C8;  | A7-B42-C9;      |
| A8-B42-C1;  | A8-B42-C2;   | A8-B42-C3;   | A8-B42-C4;      | A8-B42-C5;  | A8-B42-C6;      |
| A8-B42-C7;  | A8-B42-C8;   | A8-B42-C9;   | A9-B42-C1;      | A9-B42-C2;  | A9-B42-C3;      |
| A9-B42-C4;  | A9-B42-C5;   | A9-B42-C6;   | A9-B42-C7;      | A9-B42-C8;  | A9-B42-C9;      |
| A10-B42-C1; | A10-B42-C2;  | A10-B42-C3;  | A10-B42-C4;     | A10-B42-C5; | A10-B42-C6;     |
| A10-B42-C7; | A10-B42-C8;  | A10-B42-C9;  | A11-B42-C1;     | A11-B42-C2; | A11-B42-C3;     |
| A11-B42-C4; | A11-B42-C5;  | A11-B42-C6;  | A11-B42-C7;     | A11-B42-C8; | A11-B42-C9;     |
| A12-B42-C1; | A12-B42-C2;  | A12-B42-C3;  | A12-B42-C4;     | A12-B42-C5; | A12-B42-C6;     |
| A12-B42-C7; | A12-B42-C2;  | A12-B42-C9;  | A13-B42-C1;     | A13-B42-C2; | A13-B42-C3;     |
|             | A13-B42-C5;  | A13-B42-C6;  | A13-B42-C1;     | A13-B42-C8; | A13-B42-C9;     |
| A13-B42-C4; | •            | •            |                 | A14-B42-C5; | A14-B42-C6;     |
| A14-B42-C1; | A14-B42-C2;  | A14-B42-C3;  | A14-B42-C4;     | •           | ·               |
| A14-B42-C7; | A14-B42-C8;  | A14-B42-C9;  | A15-B42-C1;     | A15-B42-C2; | A15-B42-C3;     |
| A15-B42-C4; | A15-B42-C5;  | A15-B42-C6;  | A15-B42-C7;     | A15-B42-C8; | A15-B42-C9;     |
| A16-B42-C1; | A16-B42-C2;  | A16-B42-C3;  | A16-B42-C4;     | A16-B42-C5; | A16-B42-C6;     |
| A16-B42-C7; | A16-B42-C8;  | A16-B42-C9;  | A17-B42-C1;     | A17-B42-C2; | A17-B42-C3;     |
| A17-B42-C4; | A17-B42-C5;  | A17-B42-C6;  | A17-B42-C7;     | A17-B42-C8; | A17-B42-C9;     |
| A18-B42-C1; | A18-B42-C2;  | A18-B42-C3;  | A18-B42-C4;     | A18-B42-C5; | A18-B42-C6;     |
| A18-B42-C7; | A18-B42-C8;  | A18-B42-C9;  | A19-B42-C1;     | A19-B42-C2; | A19-B42-C3;     |
| A19-B42-C4; | A19-B42-C5;  | A19-B42-C6;  | A19-B42-C7;     | A19-B42-C8; | A19-B42-C9;     |
| A20-B42-C1; | A20-B42-C2;  | A20-B42-C3;  | A20-B42-C4;     | A20-B42-C5; | A20-B42-C6;     |
| A20-B42-C7; | A20-B42-C8;  | A20-B42-C9;  | A21-B42-C1;     | A21-B42-C2; | A21-B42-C3;     |
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| A21-B42-C4; | A21-B42-C5;                | A21-B42-C6; | A21-B42-C7;                | A21-B42-C8;                | A21-B42-C9;                |
|-------------|----------------------------|-------------|----------------------------|----------------------------|----------------------------|
| A22-B42-C1; | A22-B42-C2;                | A22-B42-C3; | A22-B42-C4;                | A22-B42-C5;                | A22-B42-C6;                |
| A22-B42-C7; | A22-B42-C8;                | A22-B42-C9; | A23-B42-C1;                | A23-B42-C2;                | A23-B42-C3;                |
| A23-B42-C4; | A23-B42-C5;                | A23-B42-C6; | A23-B42-C7;                | A23-B42-C8;                | A23-B42-C9;                |
| A24-B42-C1; | A24-B42-C2;                | A24-B42-C3; | A24-B42-C4;                | A24-B42-C5;                | A24-B42-C6;                |
| A24-B42-C7; | A24-B42-C8;                | A24-B42-C9; | A25-B42-C1;                | A25-B42-C2;                | A25-B42-C3;                |
| A25-B42-C4; | A25-B42-C5;                | A25-B42-C6; | A25-B42-C7;                | A25-B42-C8;                | A25-B42-C9;                |
| A26-B42-C1; | A26-B42-C2;                | A26-B42-C3; | A26-B42-C4;                | A26-B42-C5;                | A26-B42-C6;                |
| A26-B42-C7; | A26-B42-C8;                | A26-B42-C9; | A27-B42-C1;                | A27-B42-C2;                | A27-B42-C3;                |
| A27-B42-C4; | A27-B42-C5;                | A27-B42-C6; | A27-B42-C7;                | A27-B42-C8;                | A27-B42-C9;                |
| A28-B42-C1; | A28-B42-C2;                | A28-B42-C3; | A28-B42-C4;                | A28-B42-C5;                | A28-B42-C6;                |
| A28-B42-C7; | A28-B42-C8;                | A28-B42-C9; | A29-B42-C1;                | A29-B42-C2;                | A29-B42-C3;                |
| A29-B42-C4; | A29-B42-C5;                | A29-B42-C6; | A29-B42-C7;                | A29-B42-C8;                | A29-B42-C9;                |
| A30-B42-C1; | A30-B42-C2;                | A30-B42-C3; | A30-B42-C4;                | A30-B42-C5;                | A30-B42-C6;                |
| A30-B42-C7; | A30-B42-C8;                | A30-B42-C9; | A31-B42-C1;                | A31-B42-C2;                | A31-B42-C3;                |
| A31-B42-C4; | A31-B42-C5;                | A31-B42-C6; | A31-B42-C7;                | A31-B42-C8;                | A31-B42-C9;                |
| A32-B42-C1; | A32-B42-C2;                | A32-B42-C3; | A32-B42-C4;                | A32-B42-C5;                | A32-B42-C6;                |
| A32-B42-C7; | A32-B42-C8;                | A32-B42-C9; | A33-B42-C1;                | A33-B42-C2;                | A33-B42-C3;                |
| A33-B42-C4; | A33-B42-C5;                | A33-B42-C6; | A33-B42-C7;                | A33-B42-C8;                | A33-B42-C9;                |
| A34-B42-C1; | A34-B42-C2;                | A34-B42-C3; | A34-B42-C4;                | A34-B42-C5;                | A34-B42-C6;                |
| A34-B42-C7; | A34-B42-C8;                | A34-B42-C9; | A35-B42-C1;                | A35-B42-C2;                | A35-B42-C3;                |
| A35-B42-C4; | A35-B42-C5;                | A35-B42-C6; | A35-B42-C7;                | A35-B42-C8;                | A35-B42-C9;                |
| A36-B42-C1; | A36-B42-C2;                | A36-B42-C3; | A36-B42-C4;                | A36-B42-C5;                | A36-B42-C6;                |
| A36-B42-C7; | A36-B42-C8;                | A36-B42-C9; | A37-B42-C1;                | A37-B42-C2;                | A37-B42-C3;                |
| A37-B42-C4; | A37-B42-C5;                | A37-B42-C6; | A37-B42-C7;                | A37-B42-C8;                | A37-B42-C9;                |
| A38-B42-C1; | A38-B42-C2;                | A38-B42-C3; | A38-B42-C4;                | A38-B42-C5;                | A38-B42-C6;                |
| A38-B42-C7; | A38-B42-C8;                | A38-B42-C9; | A39-B42-C1;                | A39-B42-C2;                | A39-B42-C3;                |
| A39-B42-C4; | A39-B42-C5;                | A39-B42-C6; | A39-B42-C7;                | A39-B42-C8;                | A39-B42-C9;                |
| A40-B42-C1; | A40-B42-C2;                | A40-B42-C3; | A40-B42-C4;                | A40-B42-C5;                | A40-B42-C6;                |
| A40-B42-C7; | A40-B42-C8;                | A40-B42-C9; | A41-B42-C1;                | A41-B42-C2;                | A41-B42-C3;                |
| A41-B42-C4; | A41-B42-C5;                | A41-B42-C6; | A41-B42-C7;                | A41-B42-C8;                | A41-B42-C9;                |
| A42-B42-C1; | A42-B42-C2;                | A42-B42-C3; | A42-B42-C4;                | A42-B42-C5;                | A42-B42-C6;                |
| A42-B42-C7; | A42-B42-C8;                | A42-B42-C9; | A43-B42-C1;                | A43-B42-C2;                | A43-B42-C3;                |
| A43-B42-C4; | A43-B42-C5;                | A43-B42-C6; | A43-B42-C7;                | A43-B42-C8;                | A43-B42-C9;                |
| A44-B42-C1; | A44-B42-C2;                | A44-B42-C3; | A44-B42-C4;                | A44-B42-C5;                | A44-B42-C6;                |
| A44-B42-C7; | A44-B42-C8;                | A44-B42-C9; | A45-B42-C1;                | A45-B42-C2;                | A45-B42-C3;                |
| A45-B42-C4; | A45-B42-C5;                | A45-B42-C6; | A45-B42-C7;                | A45-B42-C8;                | A45-B42-C9;                |
| A46-B42-C1; | A46-B42-C2;                | A46-B42-C3; | A46-B42-C4;                | A46-B42-C5;                | A46-B42-C6;                |
| A46-B42-C7; | A46-B42-C8;                | A46-B42-C9; | A47-B42-C1;                | A47-B42-C2;                | A47-B42-C3;                |
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| A48-B42-C7; | A48-B42-C8;                | A48-B42-C9; | A49-B42-C1;                | A49-B42-C2;                | A49-B42-C3;                |
| A49-B42-C4; | A49-B42-C5;                | A49-B42-C6; | A49-B42-C7;                | A49-B42-C8;                | A49-B42-C9;                |
| A50-B42-C1; | A50-B42-C2;                | A50-B42-C3; | A50-B42-C4;                | A50-B42-C5;                | A50-B42-C6;                |
| A50-B42-C7; | A50-B42-C8;                | A50-B42-C9; | A51-B42-C1;                | A51-B42-C2;                | A51-B42-C3;                |
| A51-B42-C4; | A51-B42-C5;                | A51-B42-C6; | A51-B42-C7;                | A51-B42-C8;                | A51-B42-C9;                |
| A52-B42-C1; | A52-B42-C2;                | A52-B42-C3; | A52-B42-C4;                | A52-B42-C5;                | A52-B42-C6;                |
| A52-B42-C7; | A52-B42-C8;                | A52-B42-C9; | A53-B42-C1;                | A53-B42-C2;                | A53-B42-C3;                |
| A53-B42-C4; | A53-B42-C5;                | A53-B42-C6; | A53-B42-C1;<br>A53-B42-C7; | A53-B42-C2;<br>A53-B42-C8; | A53-B42-C9;                |
| A54-B42-C1; | A54-B42-C2;                | A54-B42-C3; | A54-B42-C4;                | A54-B42-C5;                | A54-B42-C6;                |
| A54-B42-C7; | A54-B42-C2;<br>A54-B42-C8; | A54-B42-C9; | A54-B42-C4;<br>A55-B42-C1; | A54-B42-C3;<br>A55-B42-C2; | A54-B42-C0;<br>A55-B42-C3; |
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| A56-B42-C1; | A56-B42-C2;                | A56-B42-C3; | A56-B42-C4;                | A56-B42-C5;                | A56-B42-C6;                |
| A56-B42-C7; | A56-B42-C8;                | A56-B42-C9; | A50-B42-C4;<br>A57-B42-C1; | A50-B42-C3;<br>A57-B42-C2; | A50-B42-C0;<br>A57-B42-C3; |
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|             | , tw-CJ,                   | , D-2-CU,   | .w. D-2-C1,                | 1301 1072-00,              | 1101-1146-C7,              |

| A58-B42-C1;                | A58-B42-C2;                | A58-B42-C3;              | A58-B42-C4;                | A58-B42-C5;              | A58-B42-C6; |
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| A58-B42-C7;                | A58-B42-C8;                | A58-B42-C9;              | A59-B42-C1;                | A59-B42-C2;              | A59-B42-C3; |
| A59-B42-C4;                | A59-B42-C5;                | A59-B42-C6;              | A59-B42-C7;                | A59-B42-C8;              | A59-B42-C9; |
| A60-B42-C1;                | A60-B42-C2;                | A60-B42-C3;              | A60-B42-C4;                | A60-B42-C5;              | A60-B42-C6; |
| A60-B42-C7;                | A60-B42-C8;                | A60-B42-C9;              | A61-B42-C1;                | A61-B42-C2;              | A61-B42-C3; |
| A61-B42-C4;                | A61-B42-C5;                | A61-B42-C6;              | A61-B42-C7;                | A61-B42-C8;              | A61-B42-C9; |
| A62-B42-C1;                | A62-B42-C2;                | A62-B42-C3;              | A62-B42-C4;                | A62-B42-C5;              | A62-B42-C6; |
| A62-B42-C7;                | A62-B42-C8;                | A62-B42-C9;              | A63-B42-C1;                | A63-B42-C2;              | A63-B42-C3; |
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| A64-B42-C1;                | A64-B42-C2;                | A64-B42-C3;              | A64-B42-C4;                | A64-B42-C5;              | A64-B42-C6; |
| A64-B42-C7;                | A64-B42-C8;                | A64-B42-C9;              | A65-B42-C1;                | A65-B42-C2;              | A65-B42-C3; |
| A65-B42-C4;                | A65-B42-C5;                | A65-B42-C6;              | A65-B42-C7;                | A65-B42-C8;              | A65-B42-C9; |
| A66-B42-C1;                | A66-B42-C2;                | A66-B42-C3;              | A66-B42-C4;                | A66-B42-C5;              | A66-B42-C6; |
| A66-B42-C7;                | A66-B42-C8;                | A66-B42-C9;              | A67-B42-C1;                | A67-B42-C2;              | A67-B42-C3; |
| A67-B42-C4;                | A67-B42-C5;                | A67-B42-C6;              | A67-B42-C1;                | A67-B42-C2;              | A67-B42-C9; |
| A68-B42-C1;                | A68-B42-C2;                | A68-B42-C3;              | A68-B42-C4;                | A68-B42-C5;              | A68-B42-C6; |
| A68-B42-C7;                | A68-B42-C8;                | A68-B42-C9;              | A69-B42-C1;                | A69-B42-C2;              | A69-B42-C3; |
| A69-B42-C4;                | A69-B42-C5;                | A69-B42-C6;              | A69-B42-C7;                | A69-B42-C8;              | A69-B42-C9; |
| A70-B42-C4;                | A70-B42-C2;                | A70-B42-C3;              | A70-B42-C4;                | A70-B42-C5;              | A70-B42-C6; |
| A70-B42-C1;<br>A70-B42-C7; | A70-B42-C2;                | A70-B42-C9;              | A70-B42-C4;<br>A71-B42-C1; | A71-B42-C2;              | A71-B42-C3; |
| A70-B42-C7;<br>A71-B42-C4; | A70-B42-C8;<br>A71-B42-C5; | A71-B42-C6;              | A71-B42-C1;<br>A71-B42-C7; | A71-B42-C2;              | A71-B42-C9; |
| A1-B43-C1;                 | A1-B43-C2;                 | A1-B43-C3;               | A1-B43-C4;                 | A1-B43-C5;               | A1-B43-C6;  |
| A1-B43-C1;                 | A1-B43-C2;                 | A1-B43-C9;               | A2-B43-C1;                 | A2-B43-C2;               | A2-B43-C3;  |
| A2-B43-C4;                 | A2-B43-C5;                 | A2-B43-C6;               | A2-B43-C1;<br>A2-B43-C7;   | A2-B43-C2;<br>A2-B43-C8; | A2-B43-C9;  |
| A3-B43-C1;                 | A3-B43-C2;                 | A2-B43-C0;<br>A3-B43-C3; | A3-B43-C4;                 | A3-B43-C5;               | A3-B43-C6;  |
| A3-B43-C1;<br>A3-B43-C7;   | A3-B43-C2;                 | A3-B43-C9;               | A4-B43-C1;                 | A4-B43-C2;               | A4-B43-C3;  |
| A4-B43-C4;                 | A4-B43-C5;                 | A4-B43-C6;               | A4-B43-C7;                 | A4-B43-C2;<br>A4-B43-C8; | A4-B43-C9;  |
| A5-B43-C1;                 | A5-B43-C2;                 | A5-B43-C3;               | A5-B43-C4;                 | A5-B43-C5;               | A5-B43-C6;  |
| A5-B43-C7;                 | A5-B43-C8;                 | A5-B43-C9;               | A6-B43-C1;                 | A6-B43-C2;               | A6-B43-C3;  |
| A6-B43-C4;                 | A6-B43-C5;                 | A6-B43-C6;               | A6-B43-C7;                 | A6-B43-C8;               | A6-B43-C9;  |
| A7-B43-C1;                 | A7-B43-C2;                 | A7-B43-C3;               | A7-B43-C4;                 | A7-B43-C5;               | A7-B43-C6;  |
| A7-B43-C7;                 | A7-B43-C8;                 | A7-B43-C9;               | A8-B43-C1;                 | A8-B43-C2;               | A8-B43-C3;  |
| A8-B43-C4;                 | A8-B43-C5;                 | A8-B43-C6;               | A8-B43-C7;                 | A8-B43-C8;               | A8-B43-C9;  |
| A9-B43-C1;                 | A9-B43-C2;                 | A9-B43-C3;               | A9-B43-C4;                 | A9-B43-C5;               | A9-B43-C6;  |
| A9-B43-C7;                 | A9-B43-C8;                 | A9-B43-C9;               | A10-B43-C1;                | A10-B43-C2;              | A10-B43-C3; |
| A10-B43-C4;                | A10-B43-C5;                | A10-B43-C6;              | A10-B43-C7;                | A10-B43-C8;              | A10-B43-C9; |
| A11-B43-C1;                | A11-B43-C2;                | A11-B43-C3;              | A11-B43-C4;                | A11-B43-C5;              | A11-B43-C6; |
| A11-B43-C7;                | A11-B43-C8;                | A11-B43-C9;              | A12-B43-C1;                | A12-B43-C2;              | A12-B43-C3; |
| A12-B43-C4;                | A12-B43-C5;                | A12-B43-C6;              | A12-B43-C7;                | A12-B43-C8;              | A12-B43-C9; |
| A13-B43-C1;                | A13-B43-C2;                | A13-B43-C3;              | A13-B43-C4;                | A13-B43-C5;              | A13-B43-C6; |
| A13-B43-C7;                | A13-B43-C8;                | A13-B43-C9;              | A14-B43-C1;                | A14-B43-C2;              | A14-B43-C3; |
| A14-B43-C4;                | A14-B43-C5;                | A14-B43-C6;              | A14-B43-C7;                | A14-B43-C8;              | A14-B43-C9; |
| A15-B43-C1;                | A15-B43-C2;                | A15-B43-C3;              | A15-B43-C4;                | A15-B43-C5;              | A15-B43-C6; |
| A15-B43-C7;                | A15-B43-C8;                | A15-B43-C9;              | A16-B43-C1;                | A16-B43-C2;              | A16-B43-C3; |
| A16-B43-C4;                | A16-B43-C5;                | A16-B43-C6;              | A16-B43-C7;                | A16-B43-C8;              | A16-B43-C9; |
| A17-B43-C1;                | A17-B43-C2;                | A17-B43-C3;              | A17-B43-C4;                | A17-B43-C5;              | A17-B43-C6; |
| A17-B43-C7;                | A17-B43-C8;                | A17-B43-C9;              | A18-B43-C1;                | A18-B43-C2;              | A18-B43-C3; |
| A18-B43-C4;                | A18-B43-C5;                | A18-B43-C6;              | A18-B43-C7;                | A18-B43-C8;              | A18-B43-C9; |
| A19-B43-C1;                | A19-B43-C2;                | A19-B43-C3;              | A19-B43-C4;                | A19-B43-C5;              | A19-B43-C6; |
| A19-B43-C7;                | A19-B43-C8;                | A19-B43-C9;              | A20-B43-C1;                | A20-B43-C2;              | A20-B43-C3; |
| A20-B43-C4;                | A20-B43-C5;                | A20-B43-C6;              | A20-B43-C7;                | A20-B43-C8;              | A20-B43-C9; |
| A21-B43-C1;                | A21-B43-C2;                | A21-B43-C3;              | A21-B43-C4;                | A21-B43-C5;              | A21-B43-C6; |
| A21-B43-C7;                | A21-B43-C8;                | A21-B43-C9;              | A22-B43-C1;                | A22-B43-C2;              | A22-B43-C3; |
| A22-B43-C4;                | A22-B43-C5;                | A22-B43-C6;              | A22-B43-C7;                | A22-B43-C8;              | A22-B43-C9; |
| A23-B43-C1;                | A23-B43-C2;                | A23-B43-C3;              | A23-B43-C4;                | A23-B43-C5;              | A23-B43-C6; |
|                            |                            |                          | •                          |                          |             |

| A23-B43-C7; | A23-B43-C8; | A23-B43-C9; | A24-B43-C1; | A24-B43-C2; | A24-B43-C3; |
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| A6-B44-C7;  | A6-B44-C8;  | A6-B44-C9;  | A7-B44-C1;  | A7-B44-C2;  | A7-B44-C3;  |
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| A10-B44-C7; | A10-B44-C8; | A10-B44-C9; | A11-B44-C1; | A11-B44-C2; | A11-B44-C3; |
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| A64-B44-C7; | A64-B44-C8; | A64-B44-C9; | A65-B44-C1; | A65-B44-C2; | A65-B44-C3; |
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| A71-B44-C4; | A71-B44-C5; | A71-B44-C6; | A71-B44-C7; | A71-B44-C8; | A71-B44-C9; |
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| A1-B45-C7;  | A1-B45-C8;  | A1-B45-C9;  | A2-B45-C1;  | A2-B45-C2;  | A2-B45-C3;  |
| A2-B45-C4;  | A2-B45-C5;  | A2-B45-C6;  | A2-B45-C7;  | A2-B45-C8;  | A2-B45-C9;  |
| A3-B45-C1;  | A3-B45-C2;  | A3-B45-C3;  | A3-B45-C4;  | A3-B45-C5;  | A3-B45-C6;  |
| A3-B45-C7;  | A3-B45-C8;  | A3-B45-C9;  | A4-B45-C1;  | A4-B45-C2;  | A4-B45-C3;  |
| A4-B45-C4;  | A4-B45-C5;  | A4-B45-C6;  | A4-B45-C7;  | A4-B45-C8;  | A4-B45-C9;  |
| A5-B45-C1;  | A5-B45-C2;  | A5-B45-C3;  | A5-B45-C4;  | A5-B45-C5;  | A5-B45-C6;  |
| A5-B45-C7;  | A5-B45-C8;  | A5-B45-C9;  | A6-B45-C1;  | A6-B45-C2;  | A6-B45-C3;  |
| A6-B45-C4;  | A6-B45-C5;  | A6-B45-C6;  | A6-B45-C7;  | A6-B45-C8;  | A6-B45-C9;  |
| A7-B45-C1;  | A7-B45-C2;  | A7-B45-C3;  | A7-B45-C4;  | A7-B45-C5;  | A7-B45-C6;  |
| A7-B45-C7;  | A7-B45-C8;  | A7-B45-C9;  | A8-B45-C1;  | A8-B45-C2;  | A8-B45-C3;  |
| A8-B45-C4;  | A8-B45-C5;  | A8-B45-C6;  | A8-B45-C7;  | A8-B45-C8;  | A8-B45-C9;  |
| A9-B45-C1;  | A9-B45-C2;  | A9-B45-C3;  | A9-B45-C4;  | A9-B45-C5;  | A9-B45-C6;  |
| A9-B45-C7;  | A9-B45-C8;  | A9-B45-C9;  | A10-B45-C1; | A10-B45-C2; | A10-B45-C3; |
| A10-B45-C4; | A10-B45-C5; | A10-B45-C6; | A10-B45-C7; | A10-B45-C8; | A10-B45-C9; |
| A11-B45-C1; | A11-B45-C2; | A11-B45-C3; | A11-B45-C4; | A11-B45-C5; | A11-B45-C6; |
| A11-B45-C7; | A11-B45-C8; | A11-B45-C9; | A12-B45-C1; | A12-B45-C2; | A12-B45-C3; |
| A12-B45-C4; | A12-B45-C5; | A12-B45-C6; | A12-B45-C7; | A12-B45-C8; | A12-B45-C9; |
| A13-B45-C1; | A13-B45-C2; | A13-B45-C3; | A13-B45-C4; | A13-B45-C5; | A13-B45-C6; |
| A13-B45-C7; | A13-B45-C8; | A13-B45-C9; | A14-B45-C1; | A14-B45-C2; | A14-B45-C3; |
| A14-B45-C4; | A14-B45-C5; | A14-B45-C6; | A14-B45-C7; | A14-B45-C8; | A14-B45-C9; |
| A15-B45-C1; | A15-B45-C2; | A15-B45-C3; | A15-B45-C4; | A15-B45-C5; | A15-B45-C6; |
| A15-B45-C7; | A15-B45-C8; | A15-B45-C9; | A16-B45-C1; | A16-B45-C2; | A16-B45-C3; |
| A16-B45-C4; | A16-B45-C5; | A16-B45-C6; | A16-B45-C7; | A16-B45-C8; | A16-B45-C9; |
| A17-B45-C1; | A17-B45-C2; | A17-B45-C3; | A17-B45-C4; | A17-B45-C5; | A17-B45-C6; |
| A17-B45-C7; | A17-B45-C8; | A17-B45-C9; | A18-B45-C1; | A18-B45-C2; | A18-B45-C3; |
| A18-B45-C4; | A18-B45-C5; | A18-B45-C6; | A18-B45-C7; | A18-B45-C8; | A18-B45-C9; |
| A19-B45-C1; | A19-B45-C2; | A19-B45-C3; | A19-B45-C4; | A19-B45-C5; | A19-B45-C6; |
| A19-B45-C7; | A19-B45-C8; | A19-B45-C9; | A20-B45-C1; | A20-B45-C2; | A20-B45-C3; |
| A20-B45-C4; | A20-B45-C5; | A20-B45-C6; | A20-B45-C7; | A20-B45-C8; | A20-B45-C9; |
| A21-B45-C1; | A21-B45-C2; | A21-B45-C3; | A21-B45-C4; | A21-B45-C5; | A21-B45-C6; |
| A21-B45-C7; | A21-B45-C8; | A21-B45-C9; | A22-B45-C1; | A22-B45-C2; | A22-B45-C3; |
| A22-B45-C4; | A22-B45-C5; | A22-B45-C6; | A22-B45-C7; | A22-B45-C8; | A22-B45-C9; |
| A23-B45-C1; | A23-B45-C2; | A23-B45-C3; | A23-B45-C4; | A23-B45-C5; | A23-B45-C6; |
| A23-B45-C7; | A23-B45-C8; | A23-B45-C9; | A24-B45-C1; | A24-B45-C2; | A24-B45-C3; |
| A24-B45-C4; | A24-B45-C5; | A24-B45-C6; | A24-B45-C7; | A24-B45-C8; | A24-B45-C9; |
| A25-B45-C1; | A25-B45-C2; | A25-B45-C3; | A25-B45-C4; | A25-B45-C5; | A25-B45-C6; |
| A25-B45-C7; | A25-B45-C8; | A25-B45-C9; | A26-B45-C1; | A26-B45-C2; | A26-B45-C3; |
| A26-B45-C4; | A26-B45-C5; | A26-B45-C6; | A26-B45-C7; | A26-B45-C8; | A26-B45-C9; |
| A27-B45-C1; | A27-B45-C2; | A27-B45-C3; | A27-B45-C4; | A27-B45-C5; | A27-B45-C6; |
| A27-B45-C7; | A27-B45-C8; | A27-B45-C9; | A28-B45-C1; | A28-B45-C2; | A28-B45-C3; |
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| A28-B45-C4; | A28-B45-C5; | A28-B45-C6; | A28-B45-C7; | A28-B45-C8;   | A28-B45-C9;         |
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| A29-B45-C7; | A29-B45-C8; | A29-B45-C9; | A30-B45-C1; | A30-B45-C2;   | A30-B45-C3;         |
| A30-B45-C4; | A30-B45-C5; | A30-B45-C6; | A30-B45-C7; | A30-B45-C8;   | A30-B45-C9;         |
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| A31-B45-C7; | A31-B45-C8; | A31-B45-C9; | A32-B45-C1; | A32-B45-C2;   | A32-B45-C3;         |
| A32-B45-C4; | A32-B45-C5; | A32-B45-C6; | A32-B45-C7; | A32-B45-C8;   | A32-B45-C9;         |
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| A33-B45-C7; | A33-B45-C8; | A33-B45-C9; | A34-B45-C1; | A34-B45-C2;   | A34-B45-C3;         |
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| A35-B45-C7; | A35-B45-C8; | A35-B45-C9; | A36-B45-C1; | A36-B45-C2;   | A36-B45-C3;         |
| A36-B45-C4; | A36-B45-C5; | A36-B45-C6; | A36-B45-C7; | A36-B45-C8;   | A36-B45-C9;         |
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| A37-B45-C7; | A37-B45-C8; | A37-B45-C9; | A38-B45-C1; | A38-B45-C2;   | A38-B45-C3;         |
| A38-B45-C4; | A38-B45-C5; | A38-B45-C6; | A38-B45-C7; | A38-B45-C8;   | A38-B45-C9;         |
| A39-B45-C1; | A39-B45-C2; | A39-B45-C3; | A39-B45-C4; | A39-B45-C5;   | A39-B45-C6;         |
| A39-B45-C7; | A39-B45-C8; | A39-B45-C9; | A40-B45-C1; | A40-B45-C2;   | A40-B45-C3;         |
| A40-B45-C4; | A40-B45-C5; | A40-B45-C6; | A40-B45-C7; | A40-B45-C8;   | A40-B45-C9;         |
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| A41-B45-C7; | A41-B45-C8; | A41-B45-C9; | A42-B45-C1; | A42-B45-C2;   | A42-B45-C3;         |
| A42-B45-C4; | A42-B45-C5; | A42-B45-C6; | A42-B45-C7; | A42-B45-C8;   | A42-B45-C9;         |
| A43-B45-C1; | A43-B45-C2; | A43-B45-C3; | A43-B45-C4; | A43-B45-C5;   | A43-B45-C6;         |
| A43-B45-C7; | A43-B45-C8; | A43-B45-C9; | A44-B45-C1; | A44-B45-C2;   | A44-B45-C3;         |
| A44-B45-C4; | A44-B45-C5; | A44-B45-C6; | A44-B45-C7; | A44-B45-C8;   | A44-B45-C9;         |
| A45-B45-C1; | A45-B45-C2; | A45-B45-C3; | A45-B45-C4; | A45-B45-C5;   | A45-B45-C6;         |
| A45-B45-C7; | A45-B45-C8; | A45-B45-C9; | A46-B45-C1; | A46-B45-C2;   | A46-B45-C3;         |
| A46-B45-C4; | A46-B45-C5; | A46-B45-C6; | A46-B45-C7; | A46-B45-C8;   | A46-B45-C9;         |
| A47-B45-C1; | A47-B45-C2; | A47-B45-C3; | A47-B45-C4; | A47-B45-C5;   | A47-B45-C6;         |
| A47-B45-C7; | A47-B45-C8; | A47-B45-C9; | A48-B45-C1; | A48-B45-C2;   | A48-B45-C3;         |
| A48-B45-C4; | A48-B45-C5; | A48-B45-C6; | A48-B45-C7; | A48-B45-C8;   | A48-B45-C9;         |
| A49-B45-C1; | A49-B45-C2; | A49-B45-C3; | A49-B45-C4; | A49-B45-C5;   | A49-B45-C6;         |
| A49-B45-C7; | A49-B45-C8; | A49-B45-C9; | A50-B45-C1; | A50-B45-C2;   | A50-B45-C3;         |
| A50-B45-C4; | A50-B45-C5; | A50-B45-C6; | A50-B45-C7; | A50-B45-C8;   | A50-B45-C9;         |
| A51-B45-C1; | A51-B45-C2; | A51-B45-C3; | A51-B45-C4; | A51-B45-C5;   | A51-B45-C6;         |
| A51-B45-C7; | A51-B45-C8; | A51-B45-C9; | A52-B45-C1; | A52-B45-C2;   | A52-B45-C3;         |
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| A53-B45-C7; | A53-B45-C8; | A53-B45-C9; | A54-B45-C1; | A54-B45-C2;   | A54-B45-C3;         |
| A54-B45-C4; | A54-B45-C5; | A54-B45-C6; | A54-B45-C7; | A54-B45-C8;   | A54-B45-C9;         |
| A55-B45-C1; | A55-B45-C2; | A55-B45-C3; | A55-B45-C4; | A55-B45-C5;   | A55-B45-C6;         |
| A55-B45-C7; | A55-B45-C8; | A55-B45-C9; | A56-B45-C1; | A56-B45-C2;   | A56-B45-C3;         |
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| A57-B45-C1; | A57-B45-C2; | A57-B45-C3; | A57-B45-C4; | A57-B45-C5;   | A57-B45-C6;         |
| A57-B45-C7; | A57-B45-C8; | A57-B45-C9; | A58-B45-C1; | A58-B45-C2;   | A58-B45-C3;         |
| A58-B45-C4; | A58-B45-C5; | A58-B45-C6; | A58-B45-C7; | A58-B45-C8;   | A58-B45-C9;         |
| A59-B45-C1; | A59-B45-C2; | A59-B45-C3; | A59-B45-C4; | A59-B45-C5;   | A59-B45-C6;         |
| A59-B45-C7; | A59-B45-C8; | A59-B45-C9; | A60-B45-C1; | A60-B45-C2;   | A60-B45-C3;         |
| A60-B45-C4; | A60-B45-C5; | A60-B45-C6; | A60-B45-C7; | A60-B45-C8;   | A60-B45-C9;         |
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| A61-B45-C7; | A61-B45-C8; | A61-B45-C9; | A62-B45-C1; | A62-B45-C2;   | A62-B45-C3;         |
| A62-B45-C4; | A62-B45-C5; | A62-B45-C6; | A62-B45-C7; | A62-B45-C8;   | A62-B45-C9;         |
| A63-B45-C1; | A63-B45-C2; | A63-B45-C3; | A63-B45-C4; | A63-B45-C5;   | A63-B45-C6;         |
| A63-B45-C7; | A63-B45-C8; | A63-B45-C9; | A64-B45-C1; | A64-B45-C2;   | A64-B45-C3;         |
| A64-B45-C4; | A64-B45-C5; | A64-B45-C6; | A64-B45-C7; | A64-B45-C8;   | A64-B45-C9;         |
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| A ( E D 4 E C ) | ACE DAE CO  | A ( 5 D 45 C 2 | 1 (5 D 15 C) | 165 D 15 C5 | A ( 5 D 45 C) |
|-----------------|-------------|----------------|--------------|-------------|---------------|
| A65-B45-C1;     | A65-B45-C2; | A65-B45-C3;    | A65-B45-C4;  | A65-B45-C5; | A65-B45-C6;   |
| A65-B45-C7;     | A65-B45-C8; | A65-B45-C9;    | -A66-B45-C1; | A66-B45-C2; | A66-B45-C3;   |
| A66-B45-C4;     | A66-B45-C5; | A66-B45-C6;    | A66-B45-C7;  | A66-B45-C8; | A66-B45-C9;   |
| A67-B45-C1;     | A67-B45-C2; | A67-B45-C3;    | A67-B45-C4;  | A67-B45-C5; | A67-B45-C6;   |
| A67-B45-C7;     | A67-B45-C8; | A67-B45-C9;    | A68-B45-C1;  | A68-B45-C2; | A68-B45-C3;   |
| A68-B45-C4;     | A68-B45-C5; | A68-B45-C6;    | A68-B45-C7;  | A68-B45-C8; | A68-B45-C9;   |
| A69-B45-C1;     | A69-B45-C2; | A69-B45-C3;    | A69-B45-C4;  | A69-B45-C5; | A69-B45-C6;   |
| A69-B45-C7;     | A69-B45-C8; | A69-B45-C9;    | A70-B45-C1;  | A70-B45-C2; | A70-B45-C3;   |
| A70-B45-C4;     | A70-B45-C5; | A70-B45-C6;    | A70-B45-C7;  | A70-B45-C8; | A70-B45-C9;   |
| A71-B45-C1;     | A71-B45-C2; | A71-B45-C3;    | A71-B45-C4;  | A71-B45-C5; | A71-B45-C6;   |
| A71-B45-C7;     | A71-B45-C8; | A71-B45-C9;    | A1-B46-C1;   | A1-B46-C2;  | A1-B46-C3;    |
| A1-B46-C4;      | A1-B46-C5;  | A1-B46-C6;     | A1-B46-C7;   | A1-B46-C8;  | A1-B46-C9;    |
| A2-B46-C1;      | A2-B46-C2;  | A2-B46-C3;     | A2-B46-C4;   | A2-B46-C5;  | A2-B46-C6;    |
| A2-B46-C7;      | A2-B46-C8;  | A2-B46-C9;     | A3-B46-C1;   | A3-B46-C2;  | A3-B46-C3;    |
| A3-B46-C4;      | A3-B46-C5;  | A3-B46-C6;     | A3-B46-C7;   | A3-B46-C8;  | A3-B46-C9;    |
|                 |             |                |              |             |               |
| A4-B46-C1;      | A4-B46-C2;  | A4-B46-C3;     | A4-B46-C4;   | A4-B46-C5;  | A4-B46-C6;    |
| A4-B46-C7;      | A4-B46-C8;  | A4-B46-C9;     | A5-B46-C1;   | A5-B46-C2;  | A5-B46-C3;    |
| A5-B46-C4;      | A5-B46-C5;  | A5-B46-C6;     | A5-B46-C7;   | A5-B46-C8;  | A5-B46-C9;    |
| A6-B46-C1;      | A6-B46-C2;  | A6-B46-C3;     | A6-B46-C4;   | A6-B46-C5;  | A6-B46-C6;    |
| A6-B46-C7;      | A6-B46-C8;  | A6-B46-C9;     | A7-B46-C1;   | A7-B46-C2;  | A7-B46-C3;    |
| A7-B46-C4;      | A7-B46-C5;  | A7-B46-C6;     | A7-B46-C7;   | A7-B46-C8;  | A7-B46-C9;    |
| A8-B46-C1;      | A8-B46-C2;  | A8-B46-C3;     | A8-B46-C4;   | A8-B46-C5;  | A8-B46-C6;    |
| A8-B46-C7;      | A8-B46-C8;  | A8-B46-C9;     | A9-B46-C1;   | A9-B46-C2;  | A9-B46-C3;    |
| A9-B46-C4;      | A9-B46-C5;  | A9-B46-C6;     | A9-B46-C7;   | A9-B46-C8;  | A9-B46-C9;    |
| A10-B46-C1;     | A10-B46-C2; | A10-B46-C3;    | A10-B46-C4;  | A10-B46-C5; | A10-B46-C6;   |
| A10-B46-C7;     | A10-B46-C8; | A10-B46-C9;    | A11-B46-C1;  | A11-B46-C2; | A11-B46-C3;   |
| A11-B46-C4;     | A11-B46-C5; | A11-B46-C6;    | A11-B46-C7;  | A11-B46-C8; | A11-B46-C9;   |
| A12-B46-C1;     | A12-B46-C2; | A12-B46-C3;    | A12-B46-C4;  | A12-B46-C5; | A12-B46-C6;   |
| A12-B46-C7;     | A12-B46-C8; | A12-B46-C9;    | A13-B46-C1;  | A13-B46-C2; | A13-B46-C3;   |
| A13-B46-C4;     | A13-B46-C5; | A13-B46-C6;    | A13-B46-C7;  | A13-B46-C8; | A13-B46-C9;   |
| A14-B46-C1;     | A14-B46-C2; | A14-B46-C3;    | A14-B46-C4;  | A14-B46-C5; | A14-B46-C6;   |
| A14-B46-C7;     | A14-B46-C8; | A14-B46-C9;    | A15-B46-C1;  | A15-B46-C2; | A15-B46-C3;   |
| A15-B46-C4;     | A15-B46-C5; | A15-B46-C6;    | A15-B46-C7;  | A15-B46-C8; | A15-B46-C9;   |
| A16-B46-C1;     | A16-B46-C2; | A16-B46-C3;    | A16-B46-C4;  | A16-B46-C5; | A16-B46-C6;   |
| A16-B46-C7;     | A16-B46-C8; | A16-B46-C9;    | A17-B46-C1;  | A17-B46-C2; | A17-B46-C3;   |
| A17-B46-C4;     | A17-B46-C5; | A17-B46-C6;    | A17-B46-C7;  | A17-B46-C8; | A17-B46-C9;   |
| A18-B46-C1;     | A18-B46-C2; | A18-B46-C3;    | A18-B46-C4;  | A18-B46-C5; | A18-B46-C6;   |
| A18-B46-C7;     | A18-B46-C8; | A18-B46-C9;    | A19-B46-C1;  | A19-B46-C2; | A19-B46-C3;   |
| A19-B46-C4;     | A19-B46-C5; |                |              |             | A19-B46-C9;   |
|                 |             | A19-B46-C6;    | A19-B46-C7;  | A19-B46-C8; |               |
| A20-B46-C1;     | A20-B46-C2; | A20-B46-C3;    | A20-B46-C4;  | A20-B46-C5; | A20-B46-C6;   |
| A20-B46-C7;     | A20-B46-C8; | A20-B46-C9;    | A21-B46-C1;  | A21-B46-C2; | A21-B46-C3;   |
| A21-B46-C4;     | A21-B46-C5; | A21-B46-C6;    | A21-B46-C7;  | A21-B46-C8; | A21-B46-C9;   |
| A22-B46-C1;     | A22-B46-C2; | A22-B46-C3;    | A22-B46-C4;  | A22-B46-C5; | A22-B46-C6;   |
| A22-B46-C7;     | A22-B46-C8; | A22-B46-C9;    | A23-B46-C1;  | A23-B46-C2; | A23-B46-C3;   |
| A23-B46-C4;     | A23-B46-C5; | A23-B46-C6;    | A23-B46-C7;  | A23-B46-C8; | A23-B46-C9;   |
| A24-B46-C1;     | A24-B46-C2; | A24-B46-C3;    | A24-B46-C4;  | A24-B46-C5; | A24-B46-C6;   |
| A24-B46-C7;     | A24-B46-C8; | A24-B46-C9;    | A25-B46-C1;  | A25-B46-C2; | A25-B46-C3;   |
| A25-B46-C4;     | A25-B46-C5; | A25-B46-C6;    | A25-B46-C7;  | A25-B46-C8; | A25-B46-C9;   |
| A26-B46-C1;     | A26-B46-C2; | A26-B46-C3;    | A26-B46-C4;  | A26-B46-C5; | A26-B46-C6;   |
| A26-B46-C7;     | A26-B46-C8; | A26-B46-C9;    | A27-B46-C1;  | A27-B46-C2; | A27-B46-C3;   |
| A27-B46-C4;     | A27-B46-C5; | A27-B46-C6;    | A27-B46-C7;  | A27-B46-C8; | A27-B46-C9;   |
| A28-B46-C1;     | A28-B46-C2; | A28-B46-C3;    | A28-B46-C4;  | A28-B46-C5; | A28-B46-C6;   |
| A28-B46-C7;     | A28-B46-C8; | A28-B46-C9;    | A29-B46-C1;  | A29-B46-C2; | A29-B46-C3;   |
| A29-B46-C4;     | A29-B46-C5; | A29-B46-C6;    | A29-B46-C7;  | A29-B46-C8; | A29-B46-C9;   |
| A30-B46-C1;     | A30-B46-C2; | A30-B46-C3;    | A30-B46-C4;  | A30-B46-C5; | A30-B46-C6;   |
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| A30-B46-C7; | A30-B46-C8; | A30-B46-C9;                | A31-B46-C1; | A31-B46-C2; | A31-B46-C3; |
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| A31-B46-C4; | A31-B46-C5; | A31-B46-C6;                | A31-B46-C7; | A31-B46-C8; | A31-B46-C9; |
| A32-B46-C1; | A32-B46-C2; | A32-B46-C3;                | A32-B46-C4; | A32-B46-C5; | A32-B46-C6; |
| A32-B46-C7; | A32-B46-C8; | A32-B46-C9;                | A33-B46-C1; | A33-B46-C2; | A33-B46-C3; |
| A33-B46-C4; | A33-B46-C5; | A33-B46-C6;                | A33-B46-C7; | A33-B46-C8; | A33-B46-C9; |
| A34-B46-C1; | A34-B46-C2; | A34-B46-C3;                | A34-B46-C4; | A34-B46-C5; | A34-B46-C6; |
| A34-B46-C7; | A34-B46-C8; | A34-B46-C9;                | A35-B46-C1; | A35-B46-C2; | A35-B46-C3; |
| A35-B46-C4; | A35-B46-C5; | A35-B46-C6;                | A35-B46-C7; | A35-B46-C8; | A35-B46-C9; |
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| A36-B46-C1; | A36-B46-C2; | A36-B46-C3;                | A36-B46-C4; | A36-B46-C5; | A36-B46-C6; |
| A36-B46-C7; | A36-B46-C8; | A36-B46-C9;                | A37-B46-C1; | A37-B46-C2; | A37-B46-C3; |
| A37-B46-C4; | A37-B46-C5; | A37-B46-C6;                | A37-B46-C7; | A37-B46-C8; | A37-B46-C9; |
| A38-B46-C1; | A38-B46-C2; | A38-B46-C3;                | A38-B46-C4; | A38-B46-C5; | A38-B46-C6; |
| A38-B46-C7; | A38-B46-C8; | A38-B46-C9;                | A39-B46-C1; | A39-B46-C2; | A39-B46-C3; |
| A39-B46-C4; | A39-B46-C5; | A39-B46-C6;                | A39-B46-C7; | A39-B46-C8; | A39-B46-C9; |
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| A40-B46-C7; | A40-B46-C8; | A40-B46-C9;                | A41-B46-C1; | A41-B46-C2; | A41-B46-C3; |
| A41-B46-C4; | A41-B46-C5; | A41-B46-C6;                | A41-B46-C7; | A41-B46-C8; | A41-B46-C9; |
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| A42-B46-C7; | A42-B46-C8; | A42-B46-C9;                | A43-B46-C1; | A43-B46-C2; | A43-B46-C3; |
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| A44-B46-C7; | A44-B46-C8; | A44-B46-C9;                | A45-B46-C1; | A45-B46-C2; | A45-B46-C3; |
| A45-B46-C4; | A45-B46-C5; | A45-B46-C6;                | A45-B46-C7; | A45-B46-C8; | A45-B46-C9; |
| A46-B46-C1; | A46-B46-C2; | A46-B46-C3;                | A46-B46-C4; | A46-B46-C5; | A46-B46-C6; |
| A46-B46-C7; | A46-B46-C8; | A46-B46-C9;                | A47-B46-C1; | A47-B46-C2; | A47-B46-C3; |
| A47-B46-C4; | A47-B46-C5; | A47-B46-C6;                | A47-B46-C7; | A47-B46-C8; | A47-B46-C9; |
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| A48-B46-C7; | A48-B46-C8; | A48-B46-C9;                | A49-B46-C1; | A49-B46-C2; | A49-B46-C3; |
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| A56-B46-C7; | A56-B46-C8; | A56-B46-C9;                | A57-B46-C1; | A57-B46-C2; | A57-B46-C3; |
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| A64-B46-C7; | A64-B46-C8; | A64-B46-C9;                | A65-B46-C1; | A65-B46-C2; | A65-B46-C3; |
| A65-B46-C4; | A65-B46-C5; | A65-B46-C6;                | A65-B46-C7; | A65-B46-C8; | A65-B46-C9; |
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| A66-B46-C7; | A66-B46-C8; | A66-B46-C9;                | A67-B46-C1; | A67-B46-C2; | A67-B46-C3; |
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| A C7 D 46 C4. | A 67 D 46 OF | A 67 D 46 CG | 467 D46 C7. | A 67 D 46 CO. | A 67 D 46 CO. |
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| A67-B46-C4;   | A67-B46-C5;  | A67-B46-C6;  | A67-B46-C7; | A67-B46-C8;   | A67-B46-C9;   |
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| A68-B46-C7;   | A68-B46-C8;  | A68-B46-C9;  | A69-B46-C1; | A69-B46-C2;   | A69-B46-C3;   |
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| A70-B46-C1;   | A70-B46-C2;  | A70-B46-C3;  | A70-B46-C4; | A70-B46-C5;   | A70-B46-C6;   |
| A70-B46-C7;   | A70-B46-C8;  | A70-B46-C9;  | A71-B46-C1; | A71-B46-C2;   | A71-B46-C3;   |
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| A1-B47-C1;    | A1-B47-C2;   | A1-B47-C3;   | A1-B47-C4;  | A1-B47-C5;    | A1-B47-C6;    |
| A1-B47-C7;    | A1-B47-C8;   | A1-B47-C9;   | A2-B47-C1;  | A2-B47-C2;    | A2-B47-C3;    |
| A2-B47-C4;    | A2-B47-C5;   | A2-B47-C6;   | A2-B47-C7;  | A2-B47-C8;    | A2-B47-C9;    |
| A3-B47-C1;    | A3-B47-C2;   | A3-B47-C3;   | A3-B47-C4;  | A3-B47-C5;    | A3-B47-C6;    |
| A3-B47-C7;    | A3-B47-C8;   | A3-B47-C9;   | A4-B47-C1;  | A4-B47-C2;    | A4-B47-C3;    |
| A4-B47-C4;    | A4-B47-C5;   | A4-B47-C6;   | A4-B47-C7;  | A4-B47-C8;    | A4-B47-C9;    |
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| A5-B47-C7;    | A5-B47-C8;   | A5-B47-C9;   | A6-B47-C1;  | A6-B47-C2;    | A6-B47-C3;    |
| A6-B47-C4;    | A6-B47-C5;   | A6-B47-C6;   | A6-B47-C7;  | A6-B47-C8;    | A6-B47-C9;    |
| A7-B47-C1;    | A7-B47-C2;   | A7-B47-C3;   | A7-B47-C4;  | A7-B47-C5;    | A7-B47-C6;    |
| A7-B47-C7;    | A7-B47-C8;   | A7-B47-C9;   | A8-B47-C1;  | A8-B47-C2;    | A8-B47-C3;    |
| A8-B47-C4;    | A8-B47-C5;   | A8-B47-C6;   | A8-B47-C7;  | A8-B47-C8;    | A8-B47-C9;    |
| A9-B47-C1;    | A9-B47-C2;   | A9-B47-C3;   | A9-B47-C4;  | A9-B47-C5;    | A9-B47-C6;    |
| A9-B47-C1;    | A9-B47-C2;   | A9-B47-C9;   | A10-B47-C1; | A10-B47-C2;   | A10-B47-C3;   |
| A10-B47-C4;   | A10-B47-C5;  | A10-B47-C6;  | A10-B47-C1; | A10-B47-C2;   | A10-B47-C9;   |
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| A11-B47-C1;   | A11-B47-C2   |              | A11-B47-C4; |               |               |
| A11-B47-C7;   | A11-B47-C8;  | A11-B47-C9;  | A12-B47-C1; | A12-B47-C2;   | A12-B47-C3;   |
| A12-B47-C4;   | A12-B47-C5;  | A12-B47-C6;  | A12-B47-C7; | A12-B47-C8;   | A12-B47-C9;   |
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| A13-B47-C7;   | A13-B47-C8;  | A13-B47-C9;  | A14-B47-C1; | A14-B47-C2;   | A14-B47-C3;   |
| A14-B47-C4;   | A14-B47-C5;  | A14-B47-C6;  | A14-B47-C7; | A14-B47-C8;   | A14-B47-C9;   |
| A15-B47-C1;   | A15-B47-C2;  | A15-B47-C3;  | A15-B47-C4; | A15-B47-C5;   | A15-B47-C6;   |
| A15-B47-C7;   | A15-B47-C8;  | A15-B47-C9;  | A16-B47-C1; | A16-B47-C2;   | A16-B47-C3;   |
| A16-B47-C4;   | A16-B47-C5;  | A16-B47-C6;  | A16-B47-C7; | A16-B47-C8;   | A16-B47-C9;   |
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| A17-B47-C7;   | A17-B47-C8;  | A17-B47-C9;  | A18-B47-C1; | A18-B47-C2;   | A18-B47-C3;   |
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| A19-B47-C7;   | A19-B47-C8;  | A19-B47-C9;  | A20-B47-C1; | A20-B47-C2;   | A20-B47-C3;   |
| A20-B47-C4;   | A20-B47-C5;  | A20-B47-C6;  | A20-B47-C7; | A20-B47-C8;   | A20-B47-C9;   |
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| A22-B47-C4;   | A22-B47-C5;  | A22-B47-C6;  | A22-B47-C7; | A22-B47-C8;   | A22-B47-C9;   |
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| A23-B47-C7;   | A23-B47-C8;  | A23-B47-C9;  | A24-B47-C1; | A24-B47-C2;   | A24-B47-C3;   |
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| A25-B47-C7;   | A25-B47-C8;  | A25-B47-C9;  | A26-B47-C1; | A26-B47-C2;   | A26-B47-C3;   |
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| A27-B47-C7;   | A27-B47-C8;  | A27-B47-C9;  | A28-B47-C1; | A28-B47-C2;   | A28-B47-C3;   |
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| A29-B47-C7;   | A29-B47-C8;  | A29-B47-C9;  | A30-B47-C1; | A30-B47-C2;   | A30-B47-C3;   |
| A30-B47-C4;   | A30-B47-C5;  | A30-B47-C6;  | A30-B47-C7; | A30-B47-C8;   | A30-B47-C9;   |
| A31-B47-C1;   | A31-B47-C2;  | A31-B47-C3;  | A31-B47-C4; | A31-B47-C5;   | A31-B47-C6;   |
| A31-B47-C7;   | A31-B47-C8;  | A31-B47-C9;  | A32-B47-C1; | A32-B47-C2;   | A32-B47-C3;   |
| A32-B47-C4;   | A32-B47-C5;  | A32-B47-C6;  | A32-B47-C7; | A32-B47-C8;   | A32-B47-C9;   |
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| A 22 D 47 CL | 422 D47 C2                 | 4.22 D.47 C2. | A 22 D 47 C4. | A 22 D 47 CE. | A22 D47 C6. |
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| A33-B47-C1;  | A33-B47-C2;                | A33-B47-C3;   | A33-B47-C4;   | A33-B47-C5;   | A33-B47-C6; |
| A33-B47-C7;  | A33-B47-C8;                | A33-B47-C9;   | A34-B47-C1;   | A34-B47-C2;   | A34-B47-C3; |
| A34-B47-C4;  | A34-B47-C5;                | A34-B47-C6;   | A34-B47-C7;   | A34-B47-C8;   | A34-B47-C9; |
| A35-B47-C1;  | A35-B47-C2;                | A35-B47-C3;   | A35-B47-C4;   | A35-B47-C5;   | A35-B47-C6; |
| A35-B47-C7;  | A35-B47-C8;                | A35-B47-C9;   | A36-B47-C1;   | A36-B47-C2;   | A36-B47-C3; |
| A36-B47-C4;  | A36-B47-C5;                | A36-B47-C6;   | A36-B47-C7;   | A36-B47-C8;   | A36-B47-C9; |
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| A37-B47-C7;  | A37-B47-C8;                | A37-B47-C9;   | A38-B47-C1;   | A38-B47-C2;   | A38-B47-C3; |
| A38-B47-C4;  | A38-B47-C5;                | A38-B47-C6;   | A38-B47-C7;   | A38-B47-C8;   | A38-B47-C9; |
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| A39-B47-C7;  | A39-B47-C8;                | A39-B47-C9;   | A40-B47-C1;   | A40-B47-C2;   | A40-B47-C3; |
| A40-B47-C4;  | A40-B47-C5;                | A40-B47-C6;   | A40-B47-C7;   | A40-B47-C8;   | A40-B47-C9; |
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| A41-B47-C7;  | A41-B47-C8;                | A41-B47-C9;   | A42-B47-C1;   | A42-B47-C2;   | A42-B47-C3; |
| A42-B47-C4;  | A42-B47-C5;                | A42-B47-C6;   | A42-B47-C7;   | A42-B47-C8;   | A42-B47-C9; |
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| A43-B47-C7;  | A43-B47-C8;                | A43-B47-C9;   |               |               |             |
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| A45-B47-C1;  | A45-B47-C2;                | A45-B47-C3;   | A45-B47-C4;   | A45-B47-C5;   | A45-B47-C6; |
| A45-B47-C7;  | A45-B47-C8;                | A45-B47-C9;   | A46-B47-C1;   | A46-B47-C2;   | A46-B47-C3; |
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| A47-B47-C7;  | A47-B47-C8;                | A47-B47-C9;   | A48-B47-C1;   | A48-B47-C2;   | A48-B47-C3; |
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| A49-B47-C7;  | A49-B47-C8;                | A49-B47-C9;   | A50-B47-C1;   | A50-B47-C2;   | A50-B47-C3; |
| A50-B47-C4;  | A50-B47-C5;                | A50-B47-C6;   | A50-B47-C7;   | A50-B47-C8;   | A50-B47-C9; |
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| A52-B47-C4;  | A52-B47-C5;                | A52-B47-C6;   | A52-B47-C7;   | A52-B47-C8;   | A52-B47-C9; |
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| A55-B47-C7;  | A55-B47-C8;                | A55-B47-C9;   | A56-B47-C1;   | A56-B47-C2;   | A56-B47-C3; |
| A56-B47-C4;  | A56-B47-C5;                | A56-B47-C6;   | A56-B47-C7;   | A56-B47-C8;   | A56-B47-C9; |
| A57-B47-C1;  | A57-B47-C2;                | A57-B47-C3;   | A57-B47-C4;   | A57-B47-C5;   | A57-B47-C6; |
| A57-B47-C7;  | A57-B47-C8;                | A57-B47-C9;   | A58-B47-C1;   | A58-B47-C2;   | A58-B47-C3; |
| A58-B47-C4;  | A58-B47-C5;                | A58-B47-C6;   | A58-B47-C7;   | A58-B47-C8;   | A58-B47-C9; |
| A59-B47-C1;  | A59-B47-C2;                | A59-B47-C3;   | A59-B47-C4;   | A59-B47-C5;   | A59-B47-C6: |
| A59-B47-C7;  | A59-B47-C8;                | A59-B47-C9;   | A60-B47-C1;   | A60-B47-C2;   | A60-B47-C3; |
| A60-B47-C4;  | A60-B47-C5;                | A60-B47-C6;   | A60-B47-C7;   | A60-B47-C2;   | A60-B47-C9; |
| A61-B47-C1;  | A61-B47-C2;                | A61-B47-C3;   | A61-B47-C4;   | A61-B47-C5;   | A61-B47-C6; |
| A61-B47-C7;  |                            | A61-B47-C9;   | A62-B47-C1;   | A62-B47-C2;   | A62-B47-C3; |
| •            | A61-B47-C8;<br>A62-B47-C5; |               |               | •             |             |
| A62-B47-C4;  | •                          | A62-B47-C6;   | A62-B47-C7;   | A62-B47-C8;   | A62-B47-C9; |
| A63-B47-C1;  | A63-B47-C2;                | A63-B47-C3;   | A63-B47-C4;   | A63-B47-C5;   | A63-B47-C6; |
| A63-B47-C7;  | A63-B47-C8;                | A63-B47-C9;   | A64-B47-C1;   | A64-B47-C2;   | A64-B47-C3; |
| A64-B47-C4;  | A64-B47-C5;                | A64-B47-C6;   | A64-B47-C7;   | A64-B47-C8;   | A64-B47-C9; |
| A65-B47-C1;  | A65-B47-C2;                | A65-B47-C3;   | A65-B47-C4;   | A65-B47-C5;   | A65-B47-C6; |
| A65-B47-C7;  | A65-B47-C8;                | A65-B47-C9;   | A66-B47-C1;   | A66-B47-C2;   | A66-B47-C3; |
| A66-B47-C4;  | A66-B47-C5;                | A66-B47-C6;   | A66-B47-C7;   | A66-B47-C8;   | A66-B47-C9; |
| A67-B47-C1;  | A67-B47-C2;                | A67-B47-C3;   | A67-B47-C4;   | A67-B47-C5;   | A67-B47-C6; |
| A67-B47-C7;  | A67-B47-C8;                | A67-B47-C9;   | A68-B47-C1;   | A68-B47-C2;   | A68-B47-C3; |
| A68-B47-C4;  | A68-B47-C5;                | A68-B47-C6;   | A68-B47-C7;   | A68-B47-C8;   | A68-B47-C9; |
| A69-B47-C1;  | A69-B47-C2;                | A69-B47-C3;   | A69-B47-C4;   | A69-B47-C5;   | A69-B47-C6; |
|              |                            |               |               |               | •           |

| A CO D 47 C7.              | A 60 D 47 CO. | 440 D47 CO. | A70 D47 C1. | 470 D47 C2.   | A70 D47 C2. |
|----------------------------|---------------|-------------|-------------|---------------|-------------|
| A69-B47-C7;                | A69-B47-C8;   | A69-B47-C9; | A70-B47-C1; | A70-B47-C2;   | A70-B47-C3; |
| A70-B47-C4;                | A70-B47-C5;   | A70-B47-C6; | A70-B47-C7; | A70-B47-C8;   | A70-B47-C9; |
| A71-B47-C1;                | A71-B47-C2;   | A71-B47-C3; | A71-B47-C4; | A71-B47-C5;   | A71-B47-C6; |
| A71-B47-C7;                | A71-B47-C8;   | A71-B47-C9; | A1-B48-C1;  | A1-B48-C2;    | A1-B48-C3;  |
| A1-B48-C4;                 | A1-B48-C5;    | A1-B48-C6;  | A1-B48-C7;  | A1-B48-C8;    | A1-B48-C9;  |
| A2-B48-C1;                 | A2-B48-C2;    | A2-B48-C3;  | A2-B48-C4;  | A2-B48-C5;    | A2-B48-C6;  |
| A2-B48-C7;                 | A2-B48-C8;    | A2-B48-C9;  | A3-B48-C1;  | A3-B48-C2;    | A3-B48-C3;  |
| A3-B48-C4;                 | A3-B48-C5;    | A3-B48-C6;  | A3-B48-C7;  | A3-B48-C8;    | A3-B48-C9;  |
| A4-B48-C1;                 | A4-B48-C2;    | A4-B48-C3;  | A4-B48-C4;  | A4-B48-C5;    | A4-B48-C6;  |
| A4-B48-C7;                 | A4-B48-C8;    | A4-B48-C9;  | A5-B48-C1;  | A5-B48-C2;    | A5-B48-C3;  |
| A5-B48-C4;                 | A5-B48-C5;    | A5-B48-C6;  | A5-B48-C7;  | A5-B48-C8;    | A5-B48-C9;  |
| A6-B48-C1;                 | A6-B48-C2;    | A6-B48-C3;  | A6-B48-C4;  | A6-B48-C5;    | A6-B48-C6;  |
| A6-B48-C7;                 | A6-B48-C8;    | A6-B48-C9;  | A7-B48-C1;  | A7-B48-C2;    | A7-B48-C3;  |
| A7-B48-C4;                 | A7-B48-C5;    | A7-B48-C6;  | A7-B48-C7;  | A7-B48-C8;    | A7-B48-C9;  |
| A8-B48-C1;                 | A8-B48-C2;    | A8-B48-C3;  | A8-B48-C4;  | A8-B48-C5;    | A8-B48-C6;  |
| A8-B48-C7;                 | A8-B48-C8;    | A8-B48-C9;  | A9-B48-C1;  | A9-B48-C2;    | A9-B48-C3;  |
| A9-B48-C4;                 | A9-B48-C5;    | A9-B48-C6;  | A9-B48-C7;  | A9-B48-C8;    | A9-B48-C9;  |
|                            | A10-B48-C2;   |             |             |               |             |
| A10-B48-C1;<br>A10-B48-C7; |               | A10-B48-C3; | A10-B48-C4; | A11 B48 C2:   | A10-B48-C6; |
|                            | A10-B48-C8;   | A10-B48-C9; | A11-B48-C1; | A11-B48-C2;   | A11-B48-C3; |
| A11-B48-C4;                | A11-B48-C5;   | A11-B48-C6; | A11-B48-C7; | A11-B48-C8;   | A11-B48-C9; |
| A12-B48-C1;                | A12-B48-C2;   | A12-B48-C3; | A12-B48-C4; | A12-B48-C5;   | A12-B48-C6; |
| A12-B48-C7;                | A12-B48-C8;   | A12-B48-C9; | A13-B48-C1; | A13-B48-C2;   | A13-B48-C3; |
| A13-B48-C4;                | A13-B48-C5;   | A13-B48-C6; | A13-B48-C7; | A13-B48-C8;   | A13-B48-C9; |
| A14-B48-C1;                | A14-B48-C2;   | A14-B48-C3; | A14-B48-C4; | A14-B48-C5;   | A14-B48-C6; |
| A14-B48-C7;                | A14-B48-C8;   | A14-B48-C9; | A15-B48-C1; | A15-B48-C2;   | A15-B48-C3; |
| A15-B48-C4;                | A15-B48-C5;   | A15-B48-C6; | A15-B48-C7; | A15-B48-C8;   | A15-B48-C9; |
| A16-B48-C1;                | A16-B48-C2;   | A16-B48-C3; | A16-B48-C4; | A16-B48-C5;   | A16-B48-C6; |
| A16-B48-C7;                | A16-B48-C8;   | A16-B48-C9; | A17-B48-C1; | A17-B48-C2;   | A17-B48-C3; |
| A17-B48-C4;                | A17-B48-C5;   | A17-B48-C6; | A17-B48-C7; | A17-B48-C8;   | A17-B48-C9; |
| A18-B48-C1;                | A18-B48-C2;   | A18-B48-C3; | A18-B48-C4; | · A18-B48-C5; | A18-B48-C6; |
| A18-B48-C7;                | A18-B48-C8;   | A18-B48-C9; | A19-B48-C1; | A19-B48-C2;   | A19-B48-C3; |
| A19-B48-C4;                | A19-B48-C5;   | A19-B48-C6; | A19-B48-C7; | A19-B48-C8;   | A19-B48-C9; |
| A20-B48-C1;                | A20-B48-C2;   | A20-B48-C3; | A20-B48-C4; | A20-B48-C5;   | A20-B48-C6; |
| A20-B48-C7;                | A20-B48-C8;   | A20-B48-C9; | A21-B48-C1; | A21-B48-C2;   | A21-B48-C3; |
| A21-B48-C4;                | A21-B48-C5;   | A21-B48-C6; | A21-B48-C7; | A21-B48-C8;   | A21-B48-C9; |
| A22-B48-C1;                | A22-B48-C2;   | A22-B48-C3; | A22-B48-C4; | A22-B48-C5;   | A22-B48-C6; |
| A22-B48-C7;                | A22-B48-C8;   | A22-B48-C9; | A23-B48-C1; | A23-B48-C2;   | A23-B48-C3; |
| A23-B48-C4;                | A23-B48-C5;   | A23-B48-C6; | A23-B48-C7; | A23-B48-C8;   | A23-B48-C9; |
| A24-B48-C1;                | A24-B48-C2;   | A24-B48-C3; | A24-B48-C4; | A24-B48-C5;   | A24-B48-C6; |
| A24-B48-C7;                | A24-B48-C8;   | A24-B48-C9; | A25-B48-C1; | A25-B48-C2;   | A25-B48-C3; |
| A25-B48-C4;                | A25-B48-C5;   | A25-B48-C6; | A25-B48-C7; | A25-B48-C8;   | A25-B48-C9; |
| A26-B48-C1;                | A26-B48-C2;   | A26-B48-C3; | A26-B48-C4; | A26-B48-C5;   | A26-B48-C6; |
| A26-B48-C7;                | A26-B48-C8;   | A26-B48-C9; | A27-B48-C1; | A27-B48-C2;   | A27-B48-C3; |
| A27-B48-C4;                | A27-B48-C5;   | A27-B48-C6; | A27-B48-C7; | A27-B48-C8;   | A27-B48-C9; |
| A28-B48-C1;                | A28-B48-C2;   | A28-B48-C3; | A28-B48-C4; | A28-B48-C5;   | A28-B48-C6; |
| A28-B48-C7;                | A28-B48-C8;   | A28-B48-C9; | A29-B48-C1; | A29-B48-C2;   | A29-B48-C3; |
| A29-B48-C4;                | A29-B48-C5;   | A29-B48-C6; | A29-B48-C7; | A29-B48-C8;   | A29-B48-C9; |
| •                          | •             | A30-B48-C3; |             |               |             |
| A30-B48-C1;                | A30-B48-C2;   |             | A30-B48-C4; | A30-B48-C5;   | A30-B48-C6; |
| A30-B48-C7;                | A30-B48-C8;   | A30-B48-C9; | A31-B48-C1; | A31-B48-C2;   | A31-B48-C3; |
| A31-B48-C4;                | A31-B48-C5;   | A31-B48-C6; | A31-B48-C7; | A31-B48-C8;   | A31-B48-C9; |
| A32-B48-C1;                | A32-B48-C2;   | A32-B48-C3; | A32-B48-C4; | A32-B48-C5;   | A32-B48-C6; |
| A32-B48-C7;                | A32-B48-C8;   | A32-B48-C9; | A33-B48-C1; | A33-B48-C2;   | A33-B48-C3; |
| A33-B48-C4;                | A33-B48-C5;   | A33-B48-C6; | A33-B48-C7; | A33-B48-C8;   | A33-B48-C9; |
| A34-B48-C1;                | A34-B48-C2;   | A34-B48-C3; | A34-B48-C4; | A34-B48-C5;   | A34-B48-C6; |
| A34-B48-C7;                | A34-B48-C8;   | A34-B48-C9; | A35-B48-C1; | A35-B48-C2;   | A35-B48-C3; |
|                            |               |             |             |               |             |

| A35-B48-C4; | A35-B48-C5; | A35-B48-C6; | A35-B48-C7; | A35-B48-C8; | A35-B48-C9; |
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| A36-B48-C1; | A36-B48-C2; | A36-B48-C3; | A36-B48-C4; | A36-B48-C5; | A36-B48-C6; |
| A36-B48-C7; | A36-B48-C8; | A36-B48-C9; | A37-B48-C1; | A37-B48-C2; | A37-B48-C3; |
| A37-B48-C4; | A37-B48-C5; | A37-B48-C6; | A37-B48-C7; | A37-B48-C8; | A37-B48-C9; |
| A38-B48-C1; | A38-B48-C2; | A38-B48-C3; | A38-B48-C4; | A38-B48-C5; | A38-B48-C6; |
|             |             |             | A39-B48-C1; | A39-B48-C2; | A39-B48-C3; |
| A38-B48-C7; | A38-B48-C8; | A38-B48-C9; |             |             |             |
| A39-B48-C4; | A39-B48-C5; | A39-B48-C6; | A39-B48-C7; | A39-B48-C8; | A39-B48-C9; |
| A40-B48-C1; | A40-B48-C2; | A40-B48-C3; | A40-B48-C4; | A40-B48-C5; | A40-B48-C6; |
| A40-B48-C7; | A40-B48-C8; | A40-B48-C9; | A41-B48-C1; | A41-B48-C2; | A41-B48-C3; |
| A41-B48-C4; | A41-B48-C5; | A41-B48-C6; | A41-B48-C7; | A41-B48-C8; | A41-B48-C9; |
| A42-B48-C1; | A42-B48-C2; | A42-B48-C3; | A42-B48-C4; | A42-B48-C5; | A42-B48-C6; |
| A42-B48-C7; | A42-B48-C8; | A42-B48-C9; | A43-B48-C1; | A43-B48-C2; | A43-B48-C3; |
| A43-B48-C4; | A43-B48-C5; | A43-B48-C6; | A43-B48-C7; | A43-B48-C8; | A43-B48-C9; |
| A44-B48-C1; | A44-B48-C2; | A44-B48-C3; | A44-B48-C4; | A44-B48-C5; | A44-B48-C6; |
| A44-B48-C7; | A44-B48-C8; | A44-B48-C9; | A45-B48-C1; | A45-B48-C2; | A45-B48-C3; |
| A45-B48-C4; | A45-B48-C5; | A45-B48-C6; | A45-B48-C7; | A45-B48-C8; | A45-B48-C9; |
| A46-B48-C1; | A46-B48-C2; | A46-B48-C3; | A46-B48-C4; | A46-B48-C5; | A46-B48-C6; |
| A46-B48-C7; | A46-B48-C8; | A46-B48-C9; | A47-B48-C1; | A47-B48-C2; | A47-B48-C3; |
| A47-B48-C4; | A47-B48-C5; | A47-B48-C6; | A47-B48-C7; | A47-B48-C8; | A47-B48-C9; |
| A48-B48-C1; | A48-B48-C2; | A48-B48-C3; | A48-B48-C4; | A48-B48-C5; | A48-B48-C6; |
| A48-B48-C7; | A48-B48-C8; | A48-B48-C9; | A49-B48-C1; | A49-B48-C2; | A49-B48-C3; |
| A49-B48-C4; | A49-B48-C5; | A49-B48-C6; | A49-B48-C7; | A49-B48-C8; | A49-B48-C9; |
| A50-B48-C1; | A50-B48-C2; | A50-B48-C3; | A50-B48-C4; | A50-B48-C5; | A50-B48-C6; |
| A50-B48-C7; | A50-B48-C8; | A50-B48-C9; | A51-B48-C1; | A51-B48-C2; | A51-B48-C3; |
| A51-B48-C4; | A51-B48-C5; | A51-B48-C6; | A51-B48-C7; | A51-B48-C8; | A51-B48-C9; |
| A52-B48-C1; | A52-B48-C2; | A52-B48-C3; | A52-B48-C4; | A52-B48-C5; | A52-B48-C6; |
| A52-B48-C7; | A52-B48-C8; | A52-B48-C9; | A53-B48-C1; | A53-B48-C2; | A53-B48-C3; |
| A53-B48-C4; | A53-B48-C5; | A53-B48-C6; | A53-B48-C7; | A53-B48-C8; | A53-B48-C9; |
| A54-B48-C1; | A54-B48-C2; | A54-B48-C3; | A54-B48-C4; | A54-B48-C5; | A54-B48-C6; |
| A54-B48-C7; | A54-B48-C8; | A54-B48-C9; | A55-B48-C1; | A55-B48-C2; | A55-B48-C3; |
| A55-B48-C4; | A55-B48-C5; | A55-B48-C6; | A55-B48-C7; | A55-B48-C8; | A55-B48-C9; |
| A56-B48-C1; | A56-B48-C2; | A56-B48-C3; | A56-B48-C4; | A56-B48-C5; | A56-B48-C6; |
| A56-B48-C7; | A56-B48-C8; | A56-B48-C9; | A57-B48-C1; | A57-B48-C2; | A57-B48-C3; |
| A57-B48-C4; | A57-B48-C5; | A57-B48-C6; | A57-B48-C7; | A57-B48-C8; | A57-B48-C9; |
| A58-B48-C1; | A58-B48-C2; | A58-B48-C3; | A58-B48-C4; | A58-B48-C5; | A58-B48-C6; |
| A58-B48-C7; | A58-B48-C8; | A58-B48-C9; | A59-B48-C1; | A59-B48-C2; | A59-B48-C3; |
| A59-B48-C4; | A59-B48-C5; | A59-B48-C6; | A59-B48-C7; | A59-B48-C8; | A59-B48-C9; |
| A60-B48-C1; | A60-B48-C2; | A60-B48-C3; | A60-B48-C4; | A60-B48-C5; | A60-B48-C6; |
| A60-B48-C7; | A60-B48-C8; | A60-B48-C9; | A61-B48-C1; | A61-B48-C2; | A61-B48-C3; |
| A61-B48-C4; | A61-B48-C5; | A61-B48-C6; | A61-B48-C7; | A61-B48-C8; | A61-B48-C9; |
| A62-B48-C1; | A62-B48-C2; | A62-B48-C3; | A62-B48-C4; | A62-B48-C5; | A62-B48-C6; |
| A62-B48-C7; | A62-B48-C8; | A62-B48-C9; | A63-B48-C1; | A63-B48-C2; | A63-B48-C3; |
| A63-B48-C4; | A63-B48-C5; | A63-B48-C6; | A63-B48-C7; | A63-B48-C8; | A63-B48-C9; |
| A64-B48-C1; | A64-B48-C2; | A64-B48-C3; | A64-B48-C4; | A64-B48-C5; | A64-B48-C6; |
| A64-B48-C7; | A64-B48-C8; | A64-B48-C9; | A65-B48-C1; | A65-B48-C2; | A65-B48-C3; |
| A65-B48-C4; | A65-B48-C5; | A65-B48-C6; | A65-B48-C7; | A65-B48-C8; | A65-B48-C9; |
| A66-B48-C1; | A66-B48-C2; | A66-B48-C3; | A66-B48-C4; | A66-B48-C5; | A66-B48-C6; |
| A66-B48-C7; | A66-B48-C8; | A66-B48-C9; | A67-B48-C1; | A67-B48-C2; | A67-B48-C3; |
| A67-B48-C4; | A67-B48-C5; | A67-B48-C6; | A67-B48-C7; | A67-B48-C8; | A67-B48-C9; |
| A68-B48-C1; | A68-B48-C2; | A68-B48-C3; | A68-B48-C4; | A68-B48-C5; | A68-B48-C6; |
| A68-B48-C7; | A68-B48-C8; | A68-B48-C9; | A69-B48-C1; | A69-B48-C2; | A69-B48-C3; |
| A69-B48-C4; | A69-B48-C5; | A69-B48-C6; | A69-B48-C7; | A69-B48-C8; | A69-B48-C9; |
| A70-B48-C1; | A70-B48-C2; | A70-B48-C3; | A70-B48-C4; | A70-B48-C5; | A70-B48-C6; |
| A70-B48-C7; | A70-B48-C8; | A70-B48-C9; | A71-B48-C1; | A71-B48-C2; | A71-B48-C3; |
| A71-B48-C4; | A71-B48-C5; | A71-B48-C6; | A71-B48-C7; | A71-B48-C8; | A71-B48-C9; |
|             |             |             |             |             |             |

| A1-B49-C1;                 | A1-B49-C2;                 | A1-B49-C3;  | A1-B49-C4;  | A1-B49-C5;  | A1-B49-C6;  |
|----------------------------|----------------------------|-------------|-------------|-------------|-------------|
| A1-B49-C7;                 | A1-B49-C8;                 | A1-B49-C9;  | A2-B49-C1;  | A2-B49-C2;  | A2-B49-C3;  |
| A2-B49-C4;                 | A2-B49-C5;                 | A2-B49-C6;  | A2-B49-C7;  | A2-B49-C8;  | A2-B49-C9;  |
| A3-B49-C1;                 | A3-B49-C2;                 | A3-B49-C3;  | A3-B49-C4;  | A3-B49-C5;  | A3-B49-C6;  |
|                            | A3-B49-C8;                 | A3-B49-C9;  | A4-B49-C1;  | A4-B49-C2;  | A4-B49-C3;  |
| A3-B49-C7;<br>A4-B49-C4;   | A4-B49-C5;                 | A4-B49-C6;  | A4-B49-C7;  | A4-B49-C8;  | A4-B49-C9;  |
|                            |                            |             | A5-B49-C4;  |             | A5-B49-C6;  |
| A5-B49-C1;                 | A5-B49-C2;                 | A5-B49-C3;  |             | A5-B49-C5;  |             |
| A5-B49-C7;                 | A5-B49-C8;                 | A5-B49-C9;  | A6-B49-C1;  | A6-B49-C2;  | A6-B49-C3;  |
| A6-B49-C4;                 | A6-B49-C5;                 | A6-B49-C6;  | A6-B49-C7;  | A6-B49-C8;  | A6-B49-C9;  |
| A7-B49-C1;                 | A7-B49-C2;                 | A7-B49-C3;  | A7-B49-C4;  | A7-B49-C5;  | A7-B49-C6;  |
| A7-B49-C7;                 | A7-B49-C8;                 | A7-B49-C9;  | A8-B49-C1;  | A8-B49-C2;  | A8-B49-C3;  |
| A8-B49-C4;                 | A8-B49-C5;                 | A8-B49-C6;  | A8-B49-C7;  | A8-B49-C8;  | A8-B49-C9;  |
| A9-B49-C1;                 | A9-B49-C2;                 | A9-B49-C3;  | A9-B49-C4;  | A9-B49-C5;  | A9-B49-C6;  |
| A9-B49-C7;                 | A9-B49-C8;                 | A9-B49-C9;  | A10-B49-C1; | A10-B49-C2; | A10-B49-C3; |
| A10-B49-C4;                | A10-B49-C5;                | A10-B49-C6; | A10-B49-C7; | A10-B49-C8; | A10-B49-C9; |
| A11-B49-C1;                | A11-B49-C2;                | A11-B49-C3; | A11-B49-C4; | A11-B49-C5; | A11-B49-C6; |
| A11-B49-C7;                | A11-B49-C8;                | A11-B49-C9; | A12-B49-C1; | A12-B49-C2; | A12-B49-C3; |
| A12-B49-C4;                | A12-B49-C5;                | A12-B49-C6; | A12-B49-C7; | A12-B49-C8; | A12-B49-C9; |
| A13-B49-C1;                | A13-B49-C2;                | A13-B49-C3; | A13-B49-C4; | A13-B49-C5; | A13-B49-C6; |
| A13-B49-C7;                | A13-B49-C8;                | A13-B49-C9; | A14-B49-C1; | A14-B49-C2; | A14-B49-C3; |
| A14-B49-C4;                | A14-B49-C5;                | A14-B49-C6; | A14-B49-C7; | A14-B49-C8; | A14-B49-C9; |
| A15-B49-C1;                | A15-B49-C2;                | A15-B49-C3; | A15-B49-C4; | A15-B49-C5; | A15-B49-C6; |
| A15-B49-C7;                | A15-B49-C8;                | A15-B49-C9; | A16-B49-C1; | A16-B49-C2; | A16-B49-C3; |
| A16-B49-C4;                | A16-B49-C5;                | A16-B49-C6; | A16-B49-C7; | A16-B49-C8; | A16-B49-C9; |
| A17-B49-C1;                | A17-B49-C2;                | A17-B49-C3; | A17-B49-C4; | A17-B49-C5; | A17-B49-C6; |
| A17-B49-C7;                | A17-B49-C8;                | A17-B49-C9; | A18-B49-C1; | A18-B49-C2; | A18-B49-C3; |
| A18-B49-C4;                | A18-B49-C5;                | A18-B49-C6; | A18-B49-C7; | A18-B49-C8; | A18-B49-C9; |
| A19-B49-C1;                | A19-B49-C2;                | A19-B49-C3; | A19-B49-C4; | A19-B49-C5; | A19-B49-C6; |
| A19-B49-C7;                | A19-B49-C8;                | A19-B49-C9; | A20-B49-C1; | A20-B49-C2; | A20-B49-C3; |
| A20-B49-C4;                | A20-B49-C5;                | A20-B49-C6; | A20-B49-C7; | A20-B49-C8; | A20-B49-C9; |
| A21-B49-C1;                | A21-B49-C2;                | A21-B49-C3; | A21-B49-C4; | A21-B49-C5; | A21-B49-C6; |
| A21-B49-C7;                | A21-B49-C8;                | A21-B49-C9; | A22-B49-C1; | A22-B49-C2; | A22-B49-C3; |
| A22-B49-C4;                | A22-B49-C5;                | A22-B49-C6; | A22-B49-C7; | A22-B49-C8; | A22-B49-C9; |
| A23-B49-C1;                | A23-B49-C2;                | A23-B49-C3; | A23-B49-C4; | A23-B49-C5; | A23-B49-C6; |
| A23-B49-C7;                | A23-B49-C8;                | A23-B49-C9; | A24-B49-C1; | A24-B49-C2; | A24-B49-C3; |
| A24-B49-C4;                | A24-B49-C5;                | A24-B49-C6; | A24-B49-C7; | A24-B49-C8; | A24-B49-C9; |
| A25-B49-C1;                | A25-B49-C2;                | A25-B49-C3; | A25-B49-C4; | A25-B49-C5; | A25-B49-C6; |
| A25-B49-C7;                | A25-B49-C8;                | A25-B49-C9; | A26-B49-C1; | A26-B49-C2; | A26-B49-C3; |
| A26-B49-C4;                | A26-B49-C5;                | A26-B49-C6; | A26-B49-C7; | A26-B49-C8; | A26-B49-C9; |
| A27-B49-C1;                | A27-B49-C2;                | A27-B49-C3; | A27-B49-C4; | A27-B49-C5; | A27-B49-C6; |
| A27-B49-C7;                | A27-B49-C8;                | A27-B49-C9; | A28-B49-C1; | A28-B49-C2; | A28-B49-C3; |
| A28-B49-C4;                | A28-B49-C5;                | A28-B49-C6; | A28-B49-C7; | A28-B49-C8; | A28-B49-C9; |
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| A29-B49-C7;                | A29-B49-C8;                | A29-B49-C9; | A30-B49-C1; | A30-B49-C2; | A30-B49-C3; |
| A30-B49-C4;                | A30-B49-C5;                | A30-B49-C6; | A30-B49-C7; | A30-B49-C8; | A30-B49-C9; |
| A31-B49-C1;                | A31-B49-C2;                | A31-B49-C3; | A31-B49-C4; | A31-B49-C5; | A31-B49-C6; |
| A31-B49-C7;                | A31-B49-C8;                | A31-B49-C9; | A32-B49-C1; | A32-B49-C2; | A32-B49-C3; |
| A32-B49-C4;                | A32-B49-C5;                | A32-B49-C6; | A32-B49-C7; | A32-B49-C8; | A32-B49-C9; |
| A33-B49-C1;                | A33-B49-C2;                | A33-B49-C3; | A33-B49-C4; | A33-B49-C5; | A33-B49-C6; |
| A33-B49-C7;                | A33-B49-C2;                | A33-B49-C9; | A34-B49-C1; | A34-B49-C2; | A34-B49-C3; |
| A34-B49-C4;                | A34-B49-C5;                | A34-B49-C6; | A34-B49-C7; | A34-B49-C2; | A34-B49-C9; |
| A34-B49-C4;<br>A35-B49-C1; | A35-B49-C2;                | A35-B49-C3; | A35-B49-C4; | A35-B49-C5; | A35-B49-C6; |
| •                          | A35-B49-C2;<br>A35-B49-C8; | A35-B49-C9; |             | A36-B49-C2; | A36-B49-C3; |
| A35-B49-C7;                | •                          | •           | A36-B49-C1; | •           | <u>-</u>    |
| A36-B49-C4;                | A36-B49-C5;                | A36-B49-C6; | A36-B49-C7; | A36-B49-C8; | A36-B49-C9; |
| A37-B49-C1;                | A37-B49-C2;                | A37-B49-C3; | A37-B49-C4; | A37-B49-C5; | A37-B49-C6; |

| A37-B49-C7; | A37-B49-C8; | A37-B49-C9; | A38-B49-C1; | A38-B49-C2; | A38-B49-C3; |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A38-B49-C4; | A38-B49-C5; | A38-B49-C6; | A38-B49-C7; | A38-B49-C8; | A38-B49-C9; |
| A39-B49-C1; | A39-B49-C2; | A39-B49-C3; | A39-B49-C4; | A39-B49-C5; | A39-B49-C6; |
| A39-B49-C7; | A39-B49-C8; | A39-B49-C9; | A40-B49-C1; | A40-B49-C2; | A40-B49-C3; |
| A40-B49-C4; | A40-B49-C5; | A40-B49-C6; | A40-B49-C7; | A40-B49-C8; | A40-B49-C9; |
| A41-B49-C1; | A41-B49-C2; | A41-B49-C3; | A41-B49-C4; | A41-B49-C5; | A41-B49-C6; |
|             |             |             | A42-B49-C1; | A42-B49-C2; | A42-B49-C3; |
| A41-B49-C7; | A41-B49-C8; | A41-B49-C9; |             |             |             |
| A42-B49-C4; | A42-B49-C5; | A42-B49-C6; | A42-B49-C7; | A42-B49-C8; | A42-B49-C9; |
| A43-B49-C1; | A43-B49-C2; | A43-B49-C3; | A43-B49-C4; | A43-B49-C5; | A43-B49-C6; |
| A43-B49-C7; | A43-B49-C8; | A43-B49-C9; | A44-B49-C1; | A44-B49-C2; | A44-B49-C3; |
| A44-B49-C4; | A44-B49-C5; | A44-B49-C6; | A44-B49-C7; | A44-B49-C8; | A44-B49-C9; |
| A45-B49-C1; | A45-B49-C2; | A45-B49-C3; | A45-B49-C4; | A45-B49-C5; | A45-B49-C6; |
| A45-B49-C7; | A45-B49-C8; | A45-B49-C9; | A46-B49-C1; | A46-B49-C2; | A46-B49-C3; |
| A46-B49-C4; | A46-B49-C5; | A46-B49-C6; | A46-B49-C7; | A46-B49-C8; | A46-B49-C9; |
| A47-B49-C1; | A47-B49-C2; | A47-B49-C3; | A47-B49-C4; | A47-B49-C5; | A47-B49-C6; |
| A47-B49-C7; | A47-B49-C8; | A47-B49-C9; | A48-B49-C1; | A48-B49-C2; | A48-B49-C3; |
| A48-B49-C4; | A48-B49-C5; | A48-B49-C6; | A48-B49-C7; | A48-B49-C8; | A48-B49-C9; |
| A49-B49-C1; | A49-B49-C2; | A49-B49-C3; | A49-B49-C4; | A49-B49-C5; | A49-B49-C6; |
| A49-B49-C7; | A49-B49-C8; | A49-B49-C9; | A50-B49-C1; | A50-B49-C2; | A50-B49-C3; |
| A50-B49-C4; | A50-B49-C5; | A50-B49-C6; | A50-B49-C7; | A50-B49-C8; | A50-B49-C9; |
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| A51-B49-C7; | A51-B49-C8; | A51-B49-C9; | A52-B49-C1; | A52-B49-C2; | A52-B49-C3; |
| A52-B49-C4; | A52-B49-C5; | A52-B49-C6; | A52-B49-C7; | A52-B49-C8; | A52-B49-C9; |
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| A53-B49-C7; | A53-B49-C8; | A53-B49-C9; | A54-B49-C1; | A54-B49-C2; | A54-B49-C3; |
| A54-B49-C4; | A54-B49-C5; | A54-B49-C6; | A54-B49-C7; | A54-B49-C8; | A54-B49-C9; |
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| A55-B49-C7; | A55-B49-C8; | A55-B49-C9; | A56-B49-C1; | A56-B49-C2; | A56-B49-C3; |
| A56-B49-C4; | A56-B49-C5; | A56-B49-C6; | A56-B49-C7; | A56-B49-C8; | A56-B49-C9; |
| A57-B49-C1; | A57-B49-C2; | A57-B49-C3; | A57-B49-C4; | A57-B49-C5; | A57-B49-C6; |
| A57-B49-C7; | A57-B49-C8; | A57-B49-C9; | A58-B49-C1; | A58-B49-C2; | A58-B49-C3; |
| A58-B49-C4; | A58-B49-C5; | A58-B49-C6; | A58-B49-C7; | A58-B49-C8; | A58-B49-C9; |
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| A59-B49-C7; | A59-B49-C8; | A59-B49-C9; | A60-B49-C1; | A60-B49-C2; | A60-B49-C3; |
| A60-B49-C4; | A60-B49-C5; | A60-B49-C6; | A60-B49-C7; | A60-B49-C8; | A60-B49-C9; |
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| A61-B49-C7; | A61-B49-C8; | A61-B49-C9; | A62-B49-C1; | A62-B49-C2; | A62-B49-C3; |
| A62-B49-C4; | A62-B49-C5; | A62-B49-C6; | A62-B49-C7; | A62-B49-C8; | A62-B49-C9; |
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| A63-B49-C7; | A63-B49-C8; | A63-B49-C9; | A64-B49-C1; | A64-B49-C2; | A64-B49-C3; |
| A64-B49-C4; | A64-B49-C5; | A64-B49-C6; | A64-B49-C7; | A64-B49-C8; | A64-B49-C9; |
| A65-B49-C1; | A65-B49-C2; | A65-B49-C3; | A65-B49-C4; | A65-B49-C5; | A65-B49-C6; |
| A65-B49-C7; | A65-B49-C8; | A65-B49-C9; | A66-B49-C1; | A66-B49-C2; | A66-B49-C3; |
| A66-B49-C4; | A66-B49-C5; | A66-B49-C6; | A66-B49-C7; | A66-B49-C8; | A66-B49-C9; |
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| A67-B49-C7; | A67-B49-C8; | A67-B49-C9; | A68-B49-C1; | A68-B49-C2; | A68-B49-C3; |
| A68-B49-C4; | A68-B49-C5; | A68-B49-C6; | A68-B49-C7; | A68-B49-C8; | A68-B49-C9; |
| A69-B49-C1; | A69-B49-C2; | A69-B49-C3; | A69-B49-C4; | A69-B49-C5; | A69-B49-C6; |
| A69-B49-C7; | A69-B49-C8; | A69-B49-C9; | A70-B49-C1; | A70-B49-C2; | A70-B49-C3; |
| A70-B49-C4; | A70-B49-C5; | A70-B49-C6; | A70-B49-C7; | A70-B49-C8; | A70-B49-C9; |
| A71-B49-C1; | A71-B49-C2; | A71-B49-C3; | A71-B49-C4; | A71-B49-C5; | A71-B49-C6; |
| A71-B49-C7; | A71-B49-C8; | A71-B49-C9; | A1-B50-C1;  | A1-B50-C2;  | A1-B50-C3;  |
| A1-B50-C4;  | A1-B50-C5;  | A1-B50-C6;  | A1-B50-C7;  | A1-B50-C8;  | A1-B50-C9;  |
| A2-B50-C1;  | A2-B50-C2;  | A2-B50-C3;  | A2-B50-C4;  | A2-B50-C5;  | A2-B50-C6;  |
| A2-B50-C7;  | A2-B50-C8;  | A2-B50-C9;  | A3-B50-C1;  | A3-B50-C2;  | A3-B50-C3;  |

| A3 R50 C4:  | A3 R50 C5   | A3 R50 C6:  | A3 R50 C7:  | A3-B50-C8;  | A3.R50.C0             |
|-------------|-------------|-------------|-------------|-------------|-----------------------|
| A3-B50-C4;  | A3-B50-C5;  | A3-B50-C6;  | A3-B50-C7;  |             | A3-B50-C9;            |
| A4-B50-C1;  | A4-B50-C2;  | A4-B50-C3;  | A4-B50-C4;  | A4-B50-C5;  | A4-B50-C6;            |
| A4-B50-C7;  | A4-B50-C8;  | A4-B50-C9;  | A5-B50-C1;  | A5-B50-C2;  | A5-B50-C3;            |
| A5-B50-C4;  | A5-B50-C5;  | A5-B50-C6;  | A5-B50-C7;  | A5-B50-C8;  | A5-B50-C9;            |
| A6-B50-C1;  | A6-B50-C2;  | A6-B50-C3;  | A6-B50-C4;  | A6-B50-C5;  | A6-B50-C6;            |
| A6-B50-C7;  | A6-B50-C8;  | A6-B50-C9;  | A7-B50-C1;  | A7-B50-C2;  | A7-B50-C3;            |
| A7-B50-C4;  | A7-B50-C5;  | A7-B50-C6;  | A7-B50-C7;  | A7-B50-C8;  | A7-B50-C9;            |
| A8-B50-C1;  | A8-B50-C2;  | A8-B50-C3;  | A8-B50-C4;  | A8-B50-C5;  | A8-B50-C6;            |
| A8-B50-C7;  | A8-B50-C8;  | A8-B50-C9;  | A9-B50-C1;  | A9-B50-C2;  | A9-B50-C3;            |
| A9-B50-C4;  | A9-B50-C5;  | A9-B50-C6;  | A9-B50-C7;  | A9-B50-C8;  | A9-B50-C9;            |
| A10-B50-C1; | A10-B50-C2; | A10-B50-C3; | A10-B50-C4; | A10-B50-C5; | A10-B50-C6;           |
| A10-B50-C7; | A10-B50-C8; | A10-B50-C9; | A11-B50-C1; | A11-B50-C2; | A11-B50-C3;           |
| A11-B50-C4; | A11-B50-C5; | A11-B50-C6; | A11-B50-C7; | A11-B50-C8; | A11-B50-C9;           |
| A12-B50-C1; | A12-B50-C2; | A12-B50-C3; | A12-B50-C4; | A12-B50-C5; | A12-B50-C6;           |
| A12-B50-C7; | A12-B50-C8; | A12-B50-C9; | A13-B50-C1; | A13-B50-C2; | A13-B50-C3;           |
| A13-B50-C4; | A13-B50-C5; | A13-B50-C6; | A13-B50-C7; | A13-B50-C8; | A13-B50-C9;           |
| A14-B50-C1; | A14-B50-C2; | A14-B50-C3; | A14-B50-C4; | A14-B50-C5; | A14-B50-C6;           |
| A14-B50-C7; | A14-B50-C8; | A14-B50-C9; | A15-B50-C1; | A15-B50-C2; | A15-B50-C3;           |
| A15-B50-C4; | A15-B50-C5; | A15-B50-C6; | A15-B50-C7; | A15-B50-C8; | A15-B50-C9;           |
| A16-B50-C1; | A16-B50-C2; | A16-B50-C3; | A16-B50-C4; | A16-B50-C5; | A16-B50-C6;           |
| A16-B50-C7; | A16-B50-C8; | A16-B50-C9; | A17-B50-C1; | A17-B50-C2; | A17-B50-C3;           |
| A17-B50-C4; | A17-B50-C5; | A17-B50-C6; | A17-B50-C7; | A17-B50-C8; | A17-B50-C9;           |
| A18-B50-C1; | A18-B50-C2; | A18-B50-C3; | A18-B50-C4; | A18-B50-C5; | A18-B50-C6;           |
| A18-B50-C7; | A18-B50-C8; | A18-B50-C9; | A19-B50-C1; | A19-B50-C2; | A19-B50-C3;           |
| A19-B50-C4; | A19-B50-C5; | A19-B50-C6; | A19-B50-C7; | A19-B50-C8; | A19-B50-C9;           |
| A20-B50-C1; | A20-B50-C2; | A20-B50-C3; | A20-B50-C4; | A20-B50-C5; | A20-B50-C6;           |
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| A20-B50-C7; | A20-B50-C8; | A20-B50-C9; | A21-B50-C1; | A21-B50-C2; | A21-B50-C3;           |
| A21-B50-C4; | A21-B50-C5; | A21-B50-C6; | A21-B50-C7; | A21-B50-C8; | A21-B50-C9;           |
| A22-B50-C1; | A22-B50-C2; | A22-B50-C3; | A22-B50-C4; | A22-B50-C5; | A22-B50-C6;           |
| A22-B50-C7; | A22-B50-C8; | A22-B50-C9; | A23-B50-C1; | A23-B50-C2; | A23-B50-C3;           |
| A23-B50-C4; | A23-B50-C5; | A23-B50-C6; | A23-B50-C7; | A23-B50-C8; | A23-B50-C9;           |
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| A24-B50-C7; | A24-B50-C8; | A24-B50-C9; | A25-B50-C1; | A25-B50-C2; | A25-B50-C3;           |
| A25-B50-C4; | A25-B50-C5; | A25-B50-C6; | A25-B50-C7; | A25-B50-C8; | A25-B50-C9;           |
| A26-B50-C1; | A26-B50-C2; | A26-B50-C3; | A26-B50-C4; | A26-B50-C5; | A26-B50-C6;           |
| A26-B50-C7; | A26-B50-C8; | A26-B50-C9; | A27-B50-C1; | A27-B50-C2; | A27-B50-C3;           |
| A27-B50-C4; | A27-B50-C5; | A27-B50-C6; | A27-B50-C7; | A27-B50-C8; | A27-B50-C9;           |
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| A28-B50-C7; | A28-B50-C8; | A28-B50-C9; | A29-B50-C1; | A29-B50-C2; | A29-B50-C3;           |
| A29-B50-C4; | A29-B50-C5; | A29-B50-C6; | A29-B50-C7; | A29-B50-C8; | A29-B50-C9;           |
| A30-B50-C1; | A30-B50-C2; | A30-B50-C3; | A30-B50-C4; | A30-B50-C5; | A30-B50-C6;           |
| A30-B50-C7; | A30-B50-C8; | A30-B50-C9; | A31-B50-C1; | A31-B50-C2; | A31-B50-C3;           |
| A31-B50-C4; | A31-B50-C5; | A31-B50-C6; | A31-B50-C7; | A31-B50-C8; | A31-B50-C9;           |
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| A33-B50-C4; | A33-B50-C5; | A33-B50-C6; | A33-B50-C7; | A33-B50-C8; | A33-B50-C9;           |
| A34-B50-C1; | A34-B50-C2; | A34-B50-C3; | A34-B50-C4; | A34-B50-C5; | A34-B50-C6;           |
| A34-B50-C7; | A34-B50-C8; | A34-B50-C9; | A35-B50-C1; | A35-B50-C2; | A35-B50-C3;           |
| A35-B50-C4; | A35-B50-C5; | A35-B50-C6; | A35-B50-C7; | A35-B50-C8; | A35-B50-C9;           |
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| A36-B50-C7; | A36-B50-C8; | A36-B50-C9; | A37-B50-C1; | A37-B50-C2; | A37-B50-C3;           |
| A37-B50-C4; | A37-B50-C5; | A37-B50-C6; | A37-B50-C7; | A37-B50-C8; | A37-B50-C9;           |
| A38-B50-C1; | A38-B50-C2; | A38-B50-C3; | A38-B50-C4; | A38-B50-C5; | A38-B50-C6;           |
| A38-B50-C7; | A38-B50-C8; | A38-B50-C9; | A39-B50-C1; | A39-B50-C2; | A39-B50-C3;           |
| A39-B50-C4; | A39-B50-C5; | A39-B50-C6; | A39-B50-C7; | A39-B50-C8; | A39-B50-C9;           |
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A40-B50-C2; A40-B50-C3; A40-B50-C4; A40-B50-C5; A40-B50-C6; A40-B50-C1; A40-B50-C7; A40-B50-C8; A40-B50-C9; A41-B50-C1; A41-B50-C2; A41-B50-C3; A41-B50-C4; A41-B50-C5; A41-B50-C6; A41-B50-C7; A41-B50-C8; A41-B50-C9; A42-B50-C4; A42-B50-C6; A42-B50-C1; A42-B50-C2; A42-B50-C3; A42-B50-C5; A43-B50-C1; A43-B50-C2; A43-B50-C3; A42-B50-C7; A42-B50-C8; A42-B50-C9; A43-B50-C9; A43-B50-C4; A43-B50-C5; A43-B50-C6; A43-B50-C7; A43-B50-C8; A44-B50-C1; A44-B50-C2; A44-B50-C3; A44-B50-C4; A44-B50-C5; A44-B50-C6; A44-B50-C7; A44-B50-C8; A44-B50-C9; A45-B50-C1; A45-B50-C2; A45-B50-C3; A45-B50-C4; A45-B50-C5; A45-B50-C6; A45-B50-C7; A45-B50-C8; A45-B50-C9; A46-B50-C2; A46-B50-C6; A46-B50-C1; A46-B50-C3; A46-B50-C4; A46-B50-C5; A46-B50-C8; A47-B50-C1; A47-B50-C3; A46-B50-C7; A46-B50-C9; A47-B50-C2; A47-B50-C5; A47-B50-C6; A47-B50-C7; A47-B50-C8; A47-B50-C9; A47-B50-C4; A48-B50-C1; A48-B50-C2; A48-B50-C3; A48-B50-C4; A48-B50-C5; A48-B50-C6; A48-B50-C8; A49-B50-C1; A49-B50-C2; A49-B50-C3; A48-B50-C7; A48-B50-C9; A49-B50-C4; A49-B50-C5; A49-B50-C6; A49-B50-C7; A49-B50-C8; A49-B50-C9; A50-B50-C1; A50-B50-C2; A50-B50-C3; A50-B50-C4; A50-B50-C5; A50-B50-C6; A50-B50-C7; A50-B50-C8; A50-B50-C9; A51-B50-C1; A51-B50-C2; A51-B50-C3; A51-B50-C4; A51-B50-C5; A51-B50-C6; A51-B50-C7; A51-B50-C8; A51-B50-C9; A52-B50-C1; A52-B50-C2; A52-B50-C3; A52-B50-C4; A52-B50-C5; A52-B50-C6; A52-B50-C7; A52-B50-C8; A52-B50-C9; A53-B50-C1; A53-B50-C2; A53-B50-C3; A53-B50-C4; A53-B50-C5; A53-B50-C6; A53-B50-C7; A53-B50-C8; A53-B50-C9; A54-B50-C1; A54-B50-C2; A54-B50-C3; A54-B50-C4; A54-B50-C5; A54-B50-C6; A54-B50-C7; A54-B50-C8; A54-B50-C9; A55-B50-C1; A55-B50-C2; A55-B50-C3; A55-B50-C4; A55-B50-C5; A55-B50-C6; A55-B50-C7; A55-B50-C8; A55-B50-C9; A56-B50-C1; A56-B50-C2; A56-B50-C3; A56-B50-C4; A56-B50-C5; A56-B50-C6; A56-B50-C7; A56-B50-C8; A56-B50-C9; A57-B50-C1; A57-B50-C2; A57-B50-C3; A57-B50-C4; A57-B50-C5; A57-B50-C6; A57-B50-C7; A57-B50-C8; A57-B50-C9; A58-B50-C5; A58-B50-C4; A58-B50-C6; A58-B50-C1; A58-B50-C2; A58-B50-C3; A58-B50-C8; A59-B50-C1; A59-B50-C2; A59-B50-C3; A58-B50-C7; A58-B50-C9; A59-B50-C8; A59-B50-C4; A59-B50-C5; A59-B50-C6; A59-B50-C7; A59-B50-C9; A60-B50-C1; A60-B50-C2; A60-B50-C3; A60-B50-C4; A60-B50-C5; A60-B50-C6; A60-B50-C7; A60-B50-C8; A60-B50-C9; A61-B50-C1; A61-B50-C2; A61-B50-C3; A61-B50-C4; A61-B50-C5; A61-B50-C6; A61-B50-C7; A61-B50-C8; A61-B50-C9; A62-B50-C1; A62-B50-C2; A62-B50-C6; A62-B50-C3; A62-B50-C4; A62-B50-C5; A62-B50-C7; A62-B50-C8; A62-B50-C9; A63-B50-C2; A63-B50-C3; A63-B50-C1; A63-B50-C4; A63-B50-C5; A63-B50-C6; A63-B50-C7; A63-B50-C8; A63-B50-C9; A64-B50-C1; A64-B50-C2; A64-B50-C3; A64-B50-C4; A64-B50-C5; A64-B50-C6; A64-B50-C7; A64-B50-C8; A64-B50-C9; A65-B50-C1; A65-B50-C2; A65-B50-C3; A65-B50-C4; A65-B50-C5; A65-B50-C6; A65-B50-C7; A65-B50-C8; A65-B50-C9; A66-B50-C1; A66-B50-C2; A66-B50-C3; A66-B50-C4; A66-B50-C5; A66-B50-C6; A66-B50-C7; A66-B50-C8; A66-B50-C9; A67-B50-C1; A67-B50-C2; A67-B50-C3; A67-B50-C4; A67-B50-C5; A67-B50-C6; A67-B50-C7; A67-B50-C8; A67-B50-C9; A68-B50-C1; A68-B50-C2; A68-B50-C3; A68-B50-C4; A68-B50-C5; A68-B50-C6; A68-B50-C7; A68-B50-C8; A68-B50-C9; A69-B50-C1; A69-B50-C2; A69-B50-C3; A69-B50-C4; A69-B50-C5; A69-B50-C6; A69-B50-C7; A69-B50-C8; A69-B50-C9; A70-B50-C4; A70-B50-C5; A70-B50-C1; A70-B50-C2; A70-B50-C3; A70-B50-C6; A70-B50-C8; A70-B50-C7; A70-B50-C9; A71-B50-C1; A71-B50-C2; A71-B50-C3; A71-B50-C4; A71-B50-C5; A71-B50-C6; A71-B50-C7; A71-B50-C8; A71-B50-C9; A1-B51-C1; A1-B51-C2; A1-B51-C3; A1-B51-C4; A1-B51-C5; A1-B51-C6; A1-B51-C7; A1-B51-C8; A1-B51-C9; A2-B51-C2; A2-B51-C3; A2-B51-C1; A2-B51-C4; A2-B51-C5; A2-B51-C6; A2-B51-C7; A2-B51-C8; A2-B51-C9; A3-B51-C1; A3-B51-C2; A3-B51-C3; A3-B51-C4; A3-B51-C5; A3-B51-C6; A3-B51-C7; A3-B51-C8; A3-B51-C9; A4-B51-C1; A4-B51-C2; A4-B51-C3; A4-B51-C4; A4-B51-C5; A4-B51-C6; A4-B51-C7; A4-B51-C8; A4-B51-C9; A5-B51-C1; A5-B51-C2; A5-B51-C3; A5-B51-C4; A5-B51-C5; A5-B51-C6;

| A 5 D 5 1 C 7 | A 5 D 5 1 C 0. | A 5 D 5 1 CO. | A 6 D 5 1 C 1. | A C D C 1 C C C . | A C D S 1 C 2.             |
|---------------|----------------|---------------|----------------|-------------------|----------------------------|
| A5-B51-C7;    | A5-B51-C8;     | A5-B51-C9;    | A6-B51-C1;     | A6-B51-C2;        | A6-B51-C3;                 |
| A6-B51-C4;    | A6-B51-C5;     | A6-B51-C6;    | A6-B51-C7;     | A6-B51-C8;        | A6-B51-C9;                 |
| A7-B51-C1;    | A7-B51-C2;     | A7-B51-C3;    | A7-B51-C4;     | A7-B51-C5;        | A7-B51-C6;                 |
| A7-B51-C7;    | A7-B51-C8;     | A7-B51-C9;    | A8-B51-C1;     | A8-B51-C2;        | A8-B51-C3;                 |
| A8-B51-C4;    | A8-B51-C5;     | A8-B51-C6;    | A8-B51-C7;     | A8-B51-C8;        | A8-B51-C9;                 |
| A9-B51-C1;    | A9-B51-C2;     | A9-B51-C3;    | A9-B51-C4;     | A9-B51-C5;        | A9-B51-C6;                 |
| A9-B51-C7;    | A9-B51-C8;     | A9-B51-C9;    | A10-B51-C1;    | A10-B51-C2;       | A10-B51-C3;                |
| A10-B51-C4;   | A10-B51-C5;    | A10-B51-C6;   | A10-B51-C7;    | A10-B51-C8;       | A10-B51-C9;                |
| A11-B51-C1;   | A11-B51-C2;    | A11-B51-C3;   | A11-B51-C4;    | A11-B51-C5;       | A11-B51-C6;                |
| A11-B51-C7;   | A11-B51-C8;    | A11-B51-C9;   | A12-B51-C1;    | A12-B51-C2;       | A12-B51-C3;                |
| A12-B51-C4;   | A12-B51-C5;    | A12-B51-C6;   | A12-B51-C7;    | A12-B51-C8;       | A12-B51-C9;                |
| A13-B51-C1;   | A13-B51-C2;    | A13-B51-C3;   | A13-B51-C4;    | A13-B51-C5;       | A13-B51-C6;                |
| A13-B51-C7;   | A13-B51-C8;    | A13-B51-C9;   | A14-B51-C1;    | A14-B51-C2;       | A14-B51-C3;                |
| A14-B51-C4;   | A14-B51-C5;    | A14-B51-C6;   | A14-B51-C7;    | A14-B51-C8;       | A14-B51-C9;                |
| A15-B51-C1;   | A15-B51-C2;    | A15-B51-C3;   | A15-B51-C4;    | A15-B51-C5;       | A15-B51-C6;                |
| A15-B51-C7;   | A15-B51-C8;    | A15-B51-C9;   | A16-B51-C1;    | A16-B51-C2;       | A16-B51-C3;                |
| A16-B51-C4;   | A16-B51-C5;    | A16-B51-C6;   | A16-B51-C7;    | A16-B51-C8;       | A16-B51-C9;                |
| A17-B51-C1;   | A17-B51-C2;    | A17-B51-C3;   | A17-B51-C4;    | A17-B51-C5;       | A17-B51-C6;                |
| A17-B51-C7;   | A17-B51-C8;    | A17-B51-C9;   | A18-B51-C1;    | A18-B51-C2;       | A18-B51-C3;                |
| A18-B51-C4;   | A18-B51-C5;    | A18-B51-C6;   | A18-B51-C7;    | A18-B51-C8;       | A18-B51-C9;                |
| A19-B51-C1;   | A19-B51-C2;    | A19-B51-C3;   | A19-B51-C4;    | A19-B51-C5;       | A19-B51-C6;                |
| A19-B51-C7;   | A19-B51-C8;    | A19-B51-C9;   | A20-B51-C1;    | A20-B51-C2;       | A20-B51-C3;                |
|               |                |               |                | A20-B51-C8;       | A20-B51-C9;                |
| A20-B51-C4;   | A20-B51-C5;    | A20-B51-C6;   | A20-B51-C7;    |                   | A20-B51-C9;<br>A21-B51-C6; |
| A21-B51-C1;   | A21-B51-C2;    | A21-B51-C3;   | A21-B51-C4;    | A21-B51-C5;       |                            |
| A21-B51-C7;   | A21-B51-C8;    | A21-B51-C9;   | A22-B51-C1;    | A22-B51-C2;       | A22-B51-C3;                |
| A22-B51-C4;   | A22-B51-C5;    | A22-B51-C6;   | A22-B51-C7;    | A22-B51-C8;       | A22-B51-C9;                |
| A23-B51-C1;   | A23-B51-C2;    | A23-B51-C3;   | A23-B51-C4;    | A23-B51-C5;       | A23-B51-C6;                |
| A23-B51-C7;   | A23-B51-C8;    | A23-B51-C9;   | A24-B51-C1;    | A24-B51-C2;       | A24-B51-C3;                |
| A24-B51-C4;   | A24-B51-C5;    | A24-B51-C6;   | A24-B51-C7;    | A24-B51-C8;       | A24-B51-C9;                |
| A25-B51-C1;   | A25-B51-C2;    | A25-B51-C3;   | A25-B51-C4;    | A25-B51-C5;       | A25-B51-C6;                |
| A25-B51-C7;   | A25-B51-C8;    | A25-B51-C9;   | A26-B51-C1;    | A26-B51-C2;       | A26-B51-C3;                |
| A26-B51-C4;   | A26-B51-C5;    | A26-B51-C6;   | A26-B51-C7;    | A26-B51-C8;       | A26-B51-C9;                |
| A27-B51-C1;   | A27-B51-C2;    | A27-B51-C3;   | A27-B51-C4;    | A27-B51-C5;       | A27-B51-C6;                |
| A27-B51-C7;   | A27-B51-C8;    | A27-B51-C9;   | A28-B51-C1;    | A28-B51-C2;       | A28-B51-C3;                |
| A28-B51-C4;   | A28-B51-C5;    | A28-B51-C6;   | A28-B51-C7;    | A28-B51-C8;       | A28-B51-C9;                |
| A29-B51-C1;   | A29-B51-C2;    | A29-B51-C3;   | A29-B51-C4;    | A29-B51-C5;       | A29-B51-C6;                |
| A29-B51-C7;   | A29-B51-C8;    | A29-B51-C9;   | A30-B51-C1;    | A30-B51-C2;       | A30-B51-C3;                |
| A30-B51-C4;   | A30-B51-C5;    | A30-B51-C6;   | A30-B51-C7;    | A30-B51-C8;       | A30-B51-C9;                |
| A31-B51-C1;   | A31-B51-C2;    | A31-B51-C3;   | A31-B51-C4;    | A31-B51-C5;       | A31-B51-C6;                |
| A31-B51-C7;   | A31-B51-C8;    | A31-B51-C9;   | A32-B51-C1;    | A32-B51-C2;       | A32-B51-C3;                |
| A32-B51-C4;   | A32-B51-C5;    | A32-B51-C6;   | A32-B51-C7;    | A32-B51-C8;       | A32-B51-C9;                |
| A33-B51-C1;   | A33-B51-C2;    | A33-B51-C3;   | A33-B51-C4;    | A33-B51-C5;       | A33-B51-C6;                |
| A33-B51-C7;   | A33-B51-C8;    | A33-B51-C9;   | A34-B51-C1;    | A34-B51-C2;       | A34-B51-C3;                |
| A34-B51-C4;   | A34-B51-C5;    | A34-B51-C6;   | A34-B51-C7;    | A34-B51-C8;       | A34-B51-C9;                |
| A35-B51-C1;   | A35-B51-C2;    | A35-B51-C3;   | A35-B51-C4;    | A35-B51-C5;       | A35-B51-C6;                |
| A35-B51-C7;   | A35-B51-C8;    | A35-B51-C9;   | A36-B51-C1;    | A36-B51-C2;       | A36-B51-C3;                |
| A36-B51-C4;   | A36-B51-C5;    | A36-B51-C6;   | A36-B51-C7;    | A36-B51-C8;       | A36-B51-C9;                |
| A37-B51-C1;   | A37-B51-C2;    | A37-B51-C3;   | A37-B51-C4;    | A37-B51-C5;       | A37-B51-C6;                |
| A37-B51-C7;   | A37-B51-C8;    | A37-B51-C9;   | A38-B51-C1;    | A38-B51-C2;       | A38-B51-C3;                |
| A38-B51-C4;   | A38-B51-C5;    | A38-B51-C6;   | A38-B51-C7;    | A38-B51-C8;       | A38-B51-C9;                |
| A39-B51-C1;   | A39-B51-C2;    | A39-B51-C3;   | A39-B51-C4;    | A39-B51-C5;       | A39-B51-C6;                |
| A39-B51-C7;   | A39-B51-C8;    | A39-B51-C9;   | A40-B51-C1;    | A40-B51-C2;       | A40-B51-C3;                |
| A40-B51-C4;   | A40-B51-C5;    | A40-B51-C6;   | A40-B51-C7;    | A40-B51-C8;       | A40-B51-C9;                |
| A41-B51-C1;   | A41-B51-C2;    | A41-B51-C3;   | A41-B51-C4;    | A41-B51-C5;       | A41-B51-C6;                |
| A41-B51-C7;   | A41-B51-C8;    | A41-B51-C9;   | A42-B51-C1;    | A42-B51-C2;       | A41-B51-C0;<br>A42-B51-C3; |
| ATT-DJ1-C/,   | A41-D31-C0,    | MTI-DJI-CZ,   | A42-D31-C1,    | 1374-DJ1-C2,      | 1172-DJI-CJ,               |

| A42-B51-C4; | A42-B51-C5; | A42-B51-C6; | A42-B51-C7; | A42-B51-C8; | A42-B51-C9; |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A43-B51-C1; | A43-B51-C2; | A43-B51-C3; | A43-B51-C4; | A43-B51-C5; | A43-B51-C6; |
| A43-B51-C7; | A43-B51-C8; | A43-B51-C9; | A44-B51-C1; | A44-B51-C2; | A44-B51-C3; |
| A44-B51-C4; | A44-B51-C5; | A44-B51-C6; | A44-B51-C7; | A44-B51-C8; | A44-B51-C9; |
| A45-B51-C1; | A45-B51-C2; | A45-B51-C3; | A45-B51-C4; | A45-B51-C5; | A45-B51-C6; |
| A45-B51-C7; | A45-B51-C8; | A45-B51-C9; | A46-B51-C1; | A46-B51-C2; | A46-B51-C3; |
| A46-B51-C4; | A46-B51-C5; | A46-B51-C6; | A46-B51-C7; | A46-B51-C8; | A46-B51-C9; |
| A47-B51-C1; | A47-B51-C2; | A47-B51-C3; | A47-B51-C4; | A47-B51-C5; | A47-B51-C6; |
| A47-B51-C7; | A47-B51-C8; | A47-B51-C9; | A48-B51-C1; | A48-B51-C2; | A48-B51-C3; |
| A48-B51-C4; | A48-B51-C5; | A48-B51-C6; | A48-B51-C7; | A48-B51-C8; | A48-B51-C9; |
| A49-B51-C1; | A49-B51-C2; | A49-B51-C3; | A49-B51-C4; | A49-B51-C5; | A49-B51-C6; |
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| A50-B51-C4; | A50-B51-C5; | A50-B51-C6; | A50-B51-C7; | A50-B51-C8; | A50-B51-C9; |
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| A53-B51-C7; | A53-B51-C8; | A53-B51-C9; | A54-B51-C1; | A54-B51-C2; | A54-B51-C3; |
| A54-B51-C4; | A54-B51-C5; | A54-B51-C6; | A54-B51-C7; | A54-B51-C8; | A54-B51-C9; |
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| A57-B51-C1; | A57-B51-C2; | A57-B51-C3; | A57-B51-C4; | A57-B51-C5; | A57-B51-C6; |
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| A59-B51-C1; | A59-B51-C2; | A59-B51-C3; | A59-B51-C4; | A59-B51-C5; | A59-B51-C6; |
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| A61-B51-C7; | A61-B51-C8; | A61-B51-C9; | A62-B51-C1; | A62-B51-C2; | A62-B51-C3; |
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| A64-B51-C4; | A64-B51-C5; | A64-B51-C6; | A64-B51-C7; | A64-B51-C8; | A64-B51-C9; |
| A65-B51-C1; | A65-B51-C2; | A65-B51-C3; | A65-B51-C4; | A65-B51-C5; | A65-B51-C6; |
| A65-B51-C7; | A65-B51-C8; | A65-B51-C9; | A66-B51-C1; | A66-B51-C2; | A66-B51-C3; |
| A66-B51-C4; | A66-B51-C5; | A66-B51-C6; | A66-B51-C7; | A66-B51-C8; | A66-B51-C9; |
| A67-B51-C1; | A67-B51-C2; | A67-B51-C3; | A67-B51-C4; | A67-B51-C5; | A67-B51-C6; |
| A67-B51-C7; | A67-B51-C8; | A67-B51-C9; | A68-B51-C1; | A68-B51-C2; | A68-B51-C3; |
| A68-B51-C4; | A68-B51-C5; | A68-B51-C6; | A68-B51-C7; | A68-B51-C8; | A68-B51-C9; |
| A69-B51-C1; | A69-B51-C2; | A69-B51-C3; | A69-B51-C4; | A69-B51-C5; | A69-B51-C6; |
| A69-B51-C7; | A69-B51-C8; | A69-B51-C9; | A70-B51-C1; | A70-B51-C2; | A70-B51-C3; |
| A70-B51-C4; | A70-B51-C5; | A70-B51-C6; | A70-B51-C7; | A70-B51-C8; | A70-B51-C9; |
| A71-B51-C1; | A71-B51-C2; | A71-B51-C3; | A71-B51-C4; | A71-B51-C5; | A71-B51-C6; |
| A71-B51-C7; | A71-B51-C8; | A71-B51-C9; | A1-B52-C1;  | A1-B52-C2;  | A1-B52-C3;  |
| A1-B52-C4;  | A1-B52-C5;  | A1-B52-C6;  | A1-B52-C7;  | A1-B52-C8;  | A1-B52-C9;  |
| A2-B52-C1;  | A2-B52-C2;  | A2-B52-C3;  | A2-B52-C4;  | A2-B52-C5;  | A2-B52-C6;  |
| A2-B52-C7;  | A2-B52-C8;  | A2-B52-C9;  | A3-B52-C1;  | A3-B52-C2;  | A3-B52-C3;  |
| A3-B52-C4;  | A3-B52-C5;  | A3-B52-C6;  | A3-B52-C7;  | A3-B52-C8;  | A3-B52-C9;  |
| A4-B52-C1;  | A4-B52-C2;  | A4-B52-C3;  | A4-B52-C4;  | A4-B52-C5;  | A4-B52-C6;  |
| A4-B52-C7;  | A4-B52-C8;  | A4-B52-C9;  | A5-B52-C1;  | A5-B52-C2;  | A5-B52-C3;  |
| A5-B52-C4;  | A5-B52-C5;  | A5-B52-C6;  | A5-B52-C7;  | A5-B52-C8;  | A5-B52-C9;  |
| A6-B52-C1;  | A6-B52-C2;  | A6-B52-C3;  | A6-B52-C4;  | A6-B52-C5;  | A6-B52-C6;  |
| A6-B52-C7;  | A6-B52-C8;  | A6-B52-C9;  | A7-B52-C1;  | A7-B52-C2;  | A7-B52-C3;  |
| A7-B52-C4;  | A7-B52-C5;  | A7-B52-C6;  | A7-B52-C7;  | A7-B52-C8;  | A7-B52-C9;  |
|             | ,           | ,           | ,           |             | <b>,</b>    |

| A 0 D 62 C1 | 40 DE2 C2.  | 4.0 DEC CC. | A 0 D 50 C4. | A 0 D 50 C5. | A 9 D 50 CC.  |
|-------------|-------------|-------------|--------------|--------------|---------------|
| A8-B52-C1;  | A8-B52-C2;  | A8-B52-C3;  | A8-B52-C4;   | A8-B52-C5;   | A8-B52-C6;    |
| A8-B52-C7;  | A8-B52-C8;  | A8-B52-C9;  | A9-B52-C1;   | A9-B52-C2;   | A9-B52-C3;    |
| A9-B52-C4;  | A9-B52-C5;  | A9-B52-C6;  | A9-B52-C7;   | A9-B52-C8;   | A9-B52-C9;    |
| A10-B52-C1; | A10-B52-C2; | A10-B52-C3; | A10-B52-C4;  | A10-B52-C5;  | A10-B52-C6;   |
| A10-B52-C7; | A10-B52-C8; | A10-B52-C9; | A11-B52-C1;  | A11-B52-C2;  | A11-B52-C3;   |
| A11-B52-C4; | A11-B52-C5; | A11-B52-C6; | A11-B52-C7;  | A11-B52-C8;  | A11-B52-C9;   |
| A12-B52-C1; | A12-B52-C2; | A12-B52-C3; | A12-B52-C4;  | A12-B52-C5;  | A12-B52-C6;   |
| A12-B52-C7; | A12-B52-C8; | A12-B52-C9; | A13-B52-C1;  | A13-B52-C2;  | A13-B52-C3;   |
| A13-B52-C4; | A13-B52-C5; | A13-B52-C6; | A13-B52-C7;  | A13-B52-C8;  | A13-B52-C9;   |
| A14-B52-C1; | A14-B52-C2; | A14-B52-C3; | A14-B52-C4;  | A14-B52-C5;  | A14-B52-C6;   |
| A14-B52-C7; | A14-B52-C8; | A14-B52-C9; | A15-B52-C1;  | A15-B52-C2;  | A15-B52-C3;   |
| A15-B52-C4; | A15-B52-C5; | A15-B52-C6; | A15-B52-C7;  | A15-B52-C8;  | A15-B52-C9;   |
| A16-B52-C1; | A16-B52-C2; | A16-B52-C3; | A16-B52-C4;  | A16-B52-C5;  | A16-B52-C6;   |
| A16-B52-C7; | A16-B52-C8; | A16-B52-C9; | A17-B52-C1;  | A17-B52-C2;  | A17-B52-C3;   |
| A17-B52-C4; | A17-B52-C5; | A17-B52-C6; | A17-B52-C7;  | A17-B52-C8;  | A17-B52-C9;   |
| A18-B52-C1; | A18-B52-C2; | A18-B52-C3; | A18-B52-C4;  | A18-B52-C5;  | A18-B52-C6;   |
| A18-B52-C7; | A18-B52-C8; | A18-B52-C9; | A19-B52-C1;  | A19-B52-C2;  | A19-B52-C3;   |
| A19-B52-C4; | A19-B52-C5; | A19-B52-C6; | A19-B52-C7;  | A19-B52-C8;  | A19-B52-C9;   |
| A20-B52-C1; | A20-B52-C2; | A20-B52-C3; | A20-B52-C4;  | A20-B52-C5;  | A20-B52-C6;   |
| A20-B52-C7; | A20-B52-C8; | A20-B52-C9; | A21-B52-C1;  | A21-B52-C2;  | A21-B52-C3;   |
| A21-B52-C4; | A21-B52-C5; | A21-B52-C6; | A21-B52-C7;  | A21-B52-C8;  | A21-B52-C9;   |
| A22-B52-C1; | A22-B52-C2; | A22-B52-C3; | A22-B52-C4;  | A22-B52-C5;  | A22-B52-C6;   |
| A22-B52-C7; | A22-B52-C8; | A22-B52-C9; | A23-B52-C1;  | A23-B52-C2;  | A23-B52-C3;   |
| A23-B52-C4; | A23-B52-C5; | A23-B52-C6; | A23-B52-C7;  | A23-B52-C8;  | A23-B52-C9;   |
| A24-B52-C1; | A24-B52-C2; | A24-B52-C3; | A24-B52-C4;  | A24-B52-C5;  | A24-B52-C6;   |
| A24-B52-C7; | A24-B52-C8; | A24-B52-C9; | A25-B52-C1;  | A25-B52-C2;  | A25-B52-C3;   |
| A25-B52-C4; | A25-B52-C5; | A25-B52-C6; | A25-B52-C7;  | A25-B52-C8;  | A25-B52-C9;   |
| A26-B52-C1; | A26-B52-C2; | A26-B52-C3; | A26-B52-C4;  | A26-B52-C5;  | A26-B52-C6;   |
| A26-B52-C7; | A26-B52-C8; | A26-B52-C9; | A27-B52-C1;  | A27-B52-C2;  | A27-B52-C3;   |
| A27-B52-C4; | A27-B52-C5; | A27-B52-C6; | A27-B52-C7;  | A27-B52-C8;  | A27-B52-C9;   |
| A28-B52-C1; | A28-B52-C2; | A28-B52-C3; | A28-B52-C4;  | A28-B52-C5;  | A28-B52-C6;   |
| A28-B52-C7; | A28-B52-C8; | A28-B52-C9; | A29-B52-C1;  | A29-B52-C2;  | A29-B52-C3;   |
| A29-B52-C4; | A29-B52-C5; | A29-B52-C6; | A29-B52-C7;  | A29-B52-C8;  | A29-B52-C9;   |
| A30-B52-C1; | A30-B52-C2; | A30-B52-C3; | A30-B52-C4;  | A30-B52-C5;  | A30-B52-C6;   |
| A30-B52-C7; | A30-B52-C8; | A30-B52-C9; | A31-B52-C1;  | A31-B52-C2;  | A31-B52-C3;   |
| A31-B52-C4; | A31-B52-C5; | A31-B52-C6; | A31-B52-C7;  | A31-B52-C8;  | A31-B52-C9;   |
| A32-B52-C1; | A32-B52-C2; | A32-B52-C3; | A32-B52-C4;  | A32-B52-C5;  | A32-B52-C6;   |
| A32-B52-C7; | A32-B52-C8; | A32-B52-C9; | A33-B52-C1;  | A33-B52-C2;  | A33-B52-C3;   |
| A33-B52-C4; | A33-B52-C5; | A33-B52-C6; | A33-B52-C7;  | A33-B52-C8;  | A33-B52-C9;   |
| A34-B52-C1; | A34-B52-C2; | A34-B52-C3; | A34-B52-C4;  | A34-B52-C5;  | A34-B52-C6;   |
| A34-B52-C7; | A34-B52-C8; | A34-B52-C9; | A35-B52-C1;  | A35-B52-C2;  | A35-B52-C3;   |
| A35-B52-C4; | A35-B52-C5; | A35-B52-C6; | A35-B52-C7;  | A35-B52-C8;  | A35-B52-C9;   |
| A36-B52-C1; | A36-B52-C2; | A36-B52-C3; | A36-B52-C4;  | A36-B52-C5;  | A36-B52-C6;   |
| A36-B52-C7; | A36-B52-C8; | A36-B52-C9; | A37-B52-C1;  | A37-B52-C2;  | A37-B52-C3;   |
| A37-B52-C4; | A37-B52-C5; | A37-B52-C6; | A37-B52-C7;  | A37-B52-C8;  | A37-B52-C9;   |
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| A38-B52-C7; | A38-B52-C8; | A38-B52-C9; | A39-B52-C1;  | A39-B52-C2;  | A39-B52-C3;   |
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| A40-B52-C7; | A40-B52-C8; | A40-B52-C9; | A41-B52-C1;  | A41-B52-C2;  | A41-B52-C3;   |
| A41-B52-C4; | A41-B52-C5; | A41-B52-C6; | A41-B52-C7;  | A41-B52-C8;  | A41-B52-C9;   |
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| A42-B52-C7; | A42-B52-C8; | A42-B52-C9; | A43-B52-C1;  | A43-B52-C2;  | A43-B52-C3;   |
| A43-B52-C4; | A43-B52-C5; | A43-B52-C6; | A43-B52-C7;  | A43-B52-C8;  | A43-B52-C9;   |
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| A44-B52-C7;                | A44-B52-C8;                | A44-B52-C9;                | A45-B52-C1;                | A45-B52-C2;                | A45-B52-C3;                |
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| A45-B52-C4;                | A45-B52-C5;                | A45-B52-C6;                | A45-B52-C7;                | A45-B52-C8;                | A45-B52-C9;                |
| A46-B52-C1;                | A46-B52-C2;                | A46-B52-C3;                | A46-B52-C4;                | A46-B52-C5;                | A46-B52-C6;                |
| A46-B52-C7;                | A46-B52-C8;                | A46-B52-C9;                | A47-B52-C1;                | A47-B52-C2;                | A47-B52-C3;                |
| A47-B52-C4;                | A47-B52-C5;                | A47-B52-C6;                | A47-B52-C7;                | A47-B52-C8;                | A47-B52-C9;                |
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| A48-B52-C7;                | A48-B52-C8;                | A48-B52-C9;                | A49-B52-C1;                | A49-B52-C2;                | A49-B52-C3;                |
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| A50-B52-C7;                | A50-B52-C8;                | A50-B52-C9;                | A51-B52-C1;                | A51-B52-C2;                | A51-B52-C3;                |
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| A63-B52-C4;                | A63-B52-C5;                | A63-B52-C6;                | A63-B52-C7;                | A63-B52-C8;                | A63-B52-C9;                |
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| A64-B52-C7;                | A64-B52-C8;                | A64-B52-C9;                | A65-B52-C1;                | A65-B52-C2;                | A65-B52-C3;                |
| A65-B52-C4;                | A65-B52-C5;                | A65-B52-C6;                | A65-B52-C7;                | A65-B52-C8;                | A65-B52-C9;                |
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| A66-B52-C7;                | A66-B52-C8;                | A66-B52-C9;                | A67-B52-C1;                | A67-B52-C2;                | A67-B52-C3;                |
| A67-B52-C4;                | A67-B52-C5;                | A67-B52-C6;                | A67-B52-C7;                | A67-B52-C8;                | A67-B52-C9;                |
| A68-B52-C1;                | A68-B52-C2;                | A68-B52-C3;                | A68-B52-C4;                | A68-B52-C5;                | A68-B52-C6;                |
| A68-B52-C7;<br>A69-B52-C4; | A68-B52-C8;<br>A69-B52-C5; | A68-B52-C9;<br>A69-B52-C6; | A69-B52-C1;<br>A69-B52-C7; | A69-B52-C2;<br>A69-B52-C8; | A69-B52-C3;<br>A69-B52-C9; |
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| A70-B52-C1;                | A70-B52-C2;                | A70-B52-C9;                | A71-B52-C1;                | A71-B52-C2;                | A71-B52-C3;                |
| A71-B52-C4;                | A71-B52-C5;                | A71-B52-C6;                | A71-B52-C7;                | A71-B52-C8;                | A71-B52-C9;                |
| A1-B53-C1;                 | A1-B53-C2;                 | A1-B53-C3;                 | A1-B53-C4;                 | A1-B53-C5;                 | A1-B53-C6;                 |
| A1-B53-C7;                 | A1-B53-C8;                 | A1-B53-C9;                 | A2-B53-C1;                 | A2-B53-C2;                 | A2-B53-C3;                 |
| A2-B53-C4;                 | A2-B53-C5;                 | A2-B53-C6;                 | A2-B53-C7;                 | A2-B53-C8;                 | A2-B53-C9;                 |
| A3-B53-C1;                 | A3-B53-C2;                 | A3-B53-C3;                 | A3-B53-C4;                 | A3-B53-C5;                 | A3-B53-C6;                 |
| A3-B53-C7;                 | A3-B53-C8;                 | A3-B53-C9;                 | A4-B53-C1;                 | A4-B53-C2;                 | A4-B53-C3;                 |
| A4-B53-C4;                 | A4-B53-C5;                 | A4-B53-C6;                 | A4-B53-C7;                 | A4-B53-C8;                 | A4-B53-C9;                 |
| A5-B53-C1;                 | A5-B53-C2;                 | A5-B53-C3;                 | A5-B53-C4;                 | A5-B53-C5;                 | A5-B53-C6;                 |
| A5-B53-C7;                 | A5-B53-C8;                 | A5-B53-C9;                 | A6-B53-C1;                 | A6-B53-C2;                 | A6-B53-C3;                 |
| A6-B53-C4;                 | A6-B53-C5;                 | A6-B53-C6;                 | A6-B53-C7;                 | A6-B53-C8;                 | A6-B53-C9;                 |
| A7-B53-C1;                 | A7-B53-C2;                 | A7-B53-C3;                 | A7-B53-C4;                 | A7-B53-C5;                 | A7-B53-C6;                 |
| A7-B53-C7;                 | A7-B53-C8;                 | A7-B53-C9;                 | A8-B53-C1;                 | A8-B53-C2;                 | A8-B53-C3;                 |
| A8-B53-C4;                 | A8-B53-C5;                 | A8-B53-C6;                 | A8-B53-C7;                 | A8-B53-C8;                 | A8-B53-C9;                 |
| A9-B53-C1;                 | A9-B53-C2;                 | A9-B53-C3;                 | A9-B53-C4;                 | A9-B53-C5;                 | A9-B53-C6;                 |
| A9-B53-C7;                 | A9-B53-C8;                 | A9-B53-C9;                 | A10-B53-C1;                | A10-B53-C2;                | A10-B53-C3;                |
|                            |                            |                            |                            |                            |                            |

| A10-B53-C4;                | A10-B53-C5;                | A10-B53-C6;                | A10-B53-C7;                | A10-B53-C8;                | A10-B53-C9; |
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| A11-B53-C1;                | A11-B53-C2;                | A11-B53-C3;                | A11-B53-C4;                | A11-B53-C5;                | A11-B53-C6; |
| A11-B53-C7;                | A11-B53-C8;                | A11-B53-C9;                | A12-B53-C1;                | A12-B53-C2;                | A12-B53-C3; |
| A12-B53-C4;                | A12-B53-C5;                | A12-B53-C6;                | A12-B53-C7;                | A12-B53-C8;                | A12-B53-C9; |
| A13-B53-C1;                | A13-B53-C2;                | A13-B53-C3;                | A13-B53-C4;                | A13-B53-C5;                | A13-B53-C6; |
| A13-B53-C7;                | A13-B53-C2;                | A13-B53-C9;                | A14-B53-C1;                | A14-B53-C2;                | A14-B53-C3; |
| A14-B53-C4;                | A14-B53-C5;                | A14-B53-C6;                | A14-B53-C1;                | A14-B53-C8;                | A14-B53-C9; |
| A14-B53-C4;<br>A15-B53-C1; | A15-B53-C3;                | A15-B53-C3;                | A15-B53-C4;                | A15-B53-C5;                | A15-B53-C6; |
| A15-B53-C1;<br>A15-B53-C7; | A15-B53-C2;<br>A15-B53-C8; | A15-B53-C9;                | A16-B53-C4;                | A16-B53-C2;                | A16-B53-C3; |
| A16-B53-C4;                | A16-B53-C5;                | A16-B53-C6;                | A16-B53-C1;                | A16-B53-C2;                | A16-B53-C9; |
| A17-B53-C1;                | A10-B53-C5;<br>A17-B53-C2; | A10-B53-C0;<br>A17-B53-C3; | A17-B53-C4;                | A10-B53-C8;<br>A17-B53-C5; | A17-B53-C6; |
| A17-B53-C1;<br>A17-B53-C7; | A17-B53-C2;<br>A17-B53-C8; | A17-B53-C9;                | A17-B53-C4;<br>A18-B53-C1; | A18-B53-C2;                | A18-B53-C3; |
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| A18-B53-C4;                | A18-B53-C5;                |                            |                            | A18-B53-C8;                |             |
| A19-B53-C1;                | A19-B53-C2;                | A19-B53-C3;                | A19-B53-C4;                | A19-B53-C5;                | A19-B53-C6; |
| A19-B53-C7;                | A19-B53-C8;                | A19-B53-C9;                | A20-B53-C1;                | A20-B53-C2;                | A20-B53-C3; |
| A20-B53-C4;                | A20-B53-C5;                | A20-B53-C6;                | A20-B53-C7;                | A20-B53-C8;                | A20-B53-C9; |
| A21-B53-C1;                | A21-B53-C2;                | A21-B53-C3;                | A21-B53-C4;                | A21-B53-C5;                | A21-B53-C6; |
| A21-B53-C7;                | A21-B53-C8;                | A21-B53-C9;                | A22-B53-C1;                | A22-B53-C2;                | A22-B53-C3; |
| A22-B53-C4;                | A22-B53-C5;                | A22-B53-C6;                | A22-B53-C7;                | A22-B53-C8;                | A22-B53-C9; |
| A23-B53-C1;                | A23-B53-C2;                | A23-B53-C3;                | A23-B53-C4;                | A23-B53-C5;                | A23-B53-C6; |
| A23-B53-C7;                | A23-B53-C8;                | A23-B53-C9;                | A24-B53-C1;                | A24-B53-C2;                | A24-B53-C3; |
| A24-B53-C4;                | A24-B53-C5;                | A24-B53-C6;                | A24-B53-C7;                | A24-B53-C8;                | A24-B53-C9; |
| A25-B53-C1;                | A25-B53-C2;                | A25-B53-C3;                | A25-B53-C4;                | A25-B53-C5;                | A25-B53-C6; |
| A25-B53-C7;                | A25-B53-C8;                | A25-B53-C9;                | A26-B53-C1;                | A26-B53-C2;                | A26-B53-C3; |
| A26-B53-C4;                | A26-B53-C5;                | A26-B53-C6;                | A26-B53-C7;                | A26-B53-C8;                | A26-B53-C9; |
| A27-B53-C1;                | A27-B53-C2;                | A27-B53-C3;                | A27-B53-C4;                | A27-B53-C5;                | A27-B53-C6; |
| A27-B53-C7;                | A27-B53-C8;                | A27-B53-C9;                | A28-B53-C1;                | A28-B53-C2;                | A28-B53-C3; |
| A28-B53-C4;                | A28-B53-C5;                | A28-B53-C6;                | A28-B53-C7;                | A28-B53-C8;                | A28-B53-C9; |
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| A29-B53-C7;                | A29-B53-C8;                | A29-B53-C9;                | A30-B53-C1;                | A30-B53-C2;                | A30-B53-C3; |
| A30-B53-C4;                | A30-B53-C5;                | A30-B53-C6;                | A30-B53-C7;                | A30-B53-C8;                | A30-B53-C9; |
| A31-B53-C1;                | A31-B53-C2;                | A31-B53-C3;                | A31-B53-C4;                | A31-B53-C5;                | A31-B53-C6; |
| A31-B53-C7;                | A31-B53-C8;                | A31-B53-C9;                | A32-B53-C1;                | A32-B53-C2;                | A32-B53-C3; |
| A32-B53-C4;                | A32-B53-C5;                | A32-B53-C6;                | A32-B53-C7;                | A32-B53-C8;                | A32-B53-C9; |
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| A33-B53-C7;                | A33-B53-C8;                | A33-B53-C9;                | A34-B53-C1;                | A34-B53-C2;                | A34-B53-C3; |
| A34-B53-C4;                | A34-B53-C5;                | A34-B53-C6;                | A34-B53-C7;                | A34-B53-C8;                | A34-B53-C9; |
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| A35-B53-C7;                | A35-B53-C8;                | A35-B53-C9;                | A36-B53-C1;                | A36-B53-C2;                | A36-B53-C3; |
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| A37-B53-C7;                | A37-B53-C8;                | A37-B53-C9;                | A38-B53-C1;                | A38-B53-C2;                | A38-B53-C3; |
| A38-B53-C4;                | A38-B53-C5;                | A38-B53-C6;                | A38-B53-C7;                | A38-B53-C8;                | A38-B53-C9; |
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| A39-B53-C7;                | A39-B53-C8;                | A39-B53-C9;                | A40-B53-C1;                | A40-B53-C2;                | A40-B53-C3; |
| A40-B53-C4;                | A40-B53-C5;                | A40-B53-C6;                | A40-B53-C7;                | A40-B53-C8;                | A40-B53-C9; |
| A41-B53-C1;                | A41-B53-C2;                | A41-B53-C3;                | A41-B53-C4;                | A41-B53-C5;                | A41-B53-C6; |
| A41-B53-C7;                | A41-B53-C8;                | A41-B53-C9;                | A42-B53-C1;                | A42-B53-C2;                | A42-B53-C3; |
| A42-B53-C4;                | A42-B53-C5;                | A42-B53-C6;                | A42-B53-C7;                | A42-B53-C8;                | A42-B53-C9; |
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| A43-B53-C7;                | A43-B53-C8;                | A43-B53-C9;                | A44-B53-C1;                | A44-B53-C2;                | A44-B53-C3; |
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| A45-B53-C7;                | A45-B53-C8;                | A45-B53-C9;                | A46-B53-C1;                | A46-B53-C2;                | A46-B53-C3; |
| A46-B53-C4;                | A46-B53-C5;                | A46-B53-C6;                | A46-B53-C7;                | A46-B53-C8;                | A46-B53-C9; |
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| A47-B53-C1; | A47-B53-C2; | A47-B53-C3;  | A47-B53-C4; | A47-B53-C5; | A47-B53-C6; |
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| A2-B54-C7;  | A2-B54-C8;  | A2-B54-C9;   | A3-B54-C1;  | A3-B54-C2;  | A3-B54-C3;  |
| A3-B54-C4;  | A3-B54-C5;  | A3-B54-C6;   | A3-B54-C7;  | A3-B54-C8;  | A3-B54-C9;  |
| A4-B54-C1;  | A4-B54-C2;  | A4-B54-C3;   | A4-B54-C4;  | A4-B54-C5;  | A4-B54-C6;  |
| A4-B54-C7;  | A4-B54-C8;  | A4-B54-C9;   | A5-B54-C1;  | A5-B54-C2;  | A5-B54-C3;  |
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| A6-B54-C7;  | A6-B54-C8;  | A6-B54-C9;   | A7-B54-C1;  | A7-B54-C2;  | A7-B54-C3;  |
| A7-B54-C4;  | A7-B54-C5;  | A7-B54-C6;   | A7-B54-C7;  | A7-B54-C8;  | A7-B54-C9;  |
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| A8-B54-C7;  | A8-B54-C8;  | A8-B54-C9;   | A9-B54-C1;  | A9-B54-C2;  | A9-B54-C3;  |
| A9-B54-C4;  | A9-B54-C5;  | A9-B54-C6;   | A9-B54-C7;  | A9-B54-C8;  | A9-B54-C9;  |
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| 7           |             | - · <b>,</b> |             |             |             |

| A 12 D54 C7 | A12-B54-C8; | A12-B54-C9; | A13-B54-C1; | A13-B54-C2; | A13-B54-C3; |
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| A12-B54-C7; |             |             |             |             |             |
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| A14-B54-C1; | A14-B54-C2; | A14-B54-C3; | A14-B54-C4; | A14-B54-C5; | A14-B54-C6; |
| A14-B54-C7; | A14-B54-C8; | A14-B54-C9; | A15-B54-C1; | A15-B54-C2; | A15-B54-C3; |
| A15-B54-C4; | A15-B54-C5; | A15-B54-C6; | A15-B54-C7; | A15-B54-C8; | A15-B54-C9; |
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| A16-B54-C7; | A16-B54-C8; | A16-B54-C9; | A17-B54-C1; | A17-B54-C2; | A17-B54-C3; |
| A17-B54-C4; | A17-B54-C5; | A17-B54-C6; | A17-B54-C7; | A17-B54-C8; | A17-B54-C9; |
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| A18-B54-C7; | A18-B54-C8; | A18-B54-C9; | A19-B54-C1; | A19-B54-C2; | A19-B54-C3; |
| A19-B54-C4; | A19-B54-C5; | A19-B54-C6; | A19-B54-C7; | A19-B54-C8; | A19-B54-C9; |
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| A20-B54-C7; | A20-B54-C8; | A20-B54-C9; | A21-B54-C1; | A21-B54-C2; | A21-B54-C3; |
| A21-B54-C4; | A21-B54-C5; | A21-B54-C6; | A21-B54-C7; | A21-B54-C8; | A21-B54-C9; |
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| A22-B54-C7; | A22-B54-C8; | A22-B54-C9; | A23-B54-C1; | A23-B54-C2; | A23-B54-C3; |
| A23-B54-C4; | A23-B54-C5; | A23-B54-C6; | A23-B54-C7; | A23-B54-C8; | A23-B54-C9; |
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|             | A42-B54-C8; |             | •           | <u>-</u>    | •           |
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| A47-B54-C4; | A47-B54-C5; | A47-B54-C6; | A47-B54-C7; | A47-B54-C8; | A47-B54-C9; |
| A48-B54-C1; | A48-B54-C2; | A48-B54-C3; | A48-B54-C4; | A48-B54-C5; | A48-B54-C6; |
| A48-B54-C7; | A48-B54-C8; | A48-B54-C9; | A49-B54-C1; | A49-B54-C2; | A49-B54-C3; |
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| A70-B54-C7; | A70-B54-C8; | A70-B54-C9; | A71-B54-C1; | A71-B54-C2; | A71-B54-C3;          |
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| A1-B55-C7;  | A1-B55-C8;  | A1-B55-C9;  | A2-B55-C1;  | A2-B55-C2;  | A2-B55-C3;           |
| A2-B55-C4;  | A2-B55-C5;  | A2-B55-C6;  | A2-B55-C7;  | A2-B55-C8;  | A2-B55-C9;           |
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| A3-B55-C7;  | A3-B55-C8;  | A3-B55-C9;  | A4-B55-C1;  | A4-B55-C2;  | A4-B55-C3;           |
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| A5-B55-C7;  | A5-B55-C8;  | A5-B55-C9;  | A6-B55-C1;  | A6-B55-C2;  | A6-B55-C3;           |
| A6-B55-C4;  | A6-B55-C5;  | A6-B55-C6;  | A6-B55-C7;  | A6-B55-C8;  | A6-B55-C9;           |
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| A9-B55-C7;  | A9-B55-C8;  | A9-B55-C9;  | A10-B55-C1; | A10-B55-C2; | A10-B55-C3;          |
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| A12-B55-C4; | A12-B55-C5; | A12-B55-C6; | A12-B55-C7; | A12-B55-C8; | A12-B55-C9;          |
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| A13-B55-C7; | A13-B55-C8; | A13-B55-C9; | A14-B55-C1; | A14-B55-C2; | A14-B55-C3;          |
| A14-B55-C4; | A14-B55-C5; | A14-B55-C6; | A14-B55-C7; | A14-B55-C8; | A14-B55-C9;          |
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| A 15 D55 CL | A 15 D55 C2. | A 15 D55 C2. | A 15 D55 CA. | A 15 D55 C5. | A 15 D55 C6.                          |
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| A15-B55-C7; | A15-B55-C8;  | A15-B55-C9;  | A16-B55-C1;  | A16-B55-C2;  | A16-B55-C3;                           |
| A16-B55-C4; | A16-B55-C5;  | A16-B55-C6;  | A16-B55-C7;  | A16-B55-C8;  | A16-B55-C9;                           |
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| A17-B55-C7; | A17-B55-C8;  | A17-B55-C9;  | A18-B55-C1;  | A18-B55-C2;  | A18-B55-C3;                           |
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| A22-B55-C4; | A22-B55-C5;  | A22-B55-C6;  | A22-B55-C7;  | A22-B55-C8;  | A22-B55-C9;                           |
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| A25-B55-C7; | A25-B55-C8;  | A25-B55-C9;  | A26-B55-C1;  | A26-B55-C2;  | A26-B55-C3;                           |
| A26-B55-C4; | A26-B55-C5;  | A26-B55-C6;  | A26-B55-C7;  | A26-B55-C8;  | A26-B55-C9;                           |
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| A27-B55-C7; | A27-B55-C8;  | A27-B55-C9;  | A28-B55-C1;  | A28-B55-C2;  | A28-B55-C3;                           |
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| A31-B55-C7; | A31-B55-C8;  | A31-B55-C9;  | A32-B55-C1;  | A32-B55-C2;  | A32-B55-C3;                           |
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| A35-B55-C7; | A35-B55-C8;  | A35-B55-C9;  | A36-B55-C1;  | A36-B55-C2;  | A36-B55-C3;                           |
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| A37-B55-C7; | A37-B55-C8;  | A37-B55-C9;  | A38-B55-C1;  | A38-B55-C2;  | A38-B55-C3;                           |
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| A39-B55-C7; | A39-B55-C8;  | A39-B55-C9;  | A40-B55-C1;  | A40-B55-C2;  | A40-B55-C3;                           |
| A40-B55-C4; | A40-B55-C5;  | A40-B55-C6;  | A40-B55-C7;  | A40-B55-C8;  | A40-B55-C9;                           |
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| A41-B55-C7; | A41-B55-C8;  | A41-B55-C9;  | A42-B55-C1;  | A42-B55-C2;  | A42-B55-C3;                           |
| A42-B55-C4; | A42-B55-C5;  | A42-B55-C6;  | A42-B55-C7;  | A42-B55-C8;  | A42-B55-C9;                           |
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| A43-B55-C7; | A43-B55-C8;  | A43-B55-C9;  | A44-B55-C1;  | A44-B55-C2;  | A44-B55-C3;                           |
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| A45-B55-C7; | A45-B55-C8;  | A45-B55-C9;  | A46-B55-C1;  | A46-B55-C2;  | A46-B55-C3;                           |
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| A46-B55-C4; | A46-B55-C5;  | A46-B55-C6;  | A46-B55-C7;  |              | A46-B55-C9;                           |
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| A47-B55-C7; | A47-B55-C8;  | A47-B55-C9;  | A48-B55-C1;  | A48-B55-C2;  | A48-B55-C3;                           |
| A48-B55-C4; | A48-B55-C5;  | A48-B55-C6;  | A48-B55-C7;  | A48-B55-C8;  | A48-B55-C9;                           |
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| A49-B55-C7; | A49-B55-C8;  | A49-B55-C9;  | A50-B55-C1;  | A50-B55-C2;  | A50-B55-C3;                           |
| A50-B55-C4; | A50-B55-C5;  | A50-B55-C6;  | A50-B55-C7;  | A50-B55-C8;  | A50-B55-C9;                           |
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| A68-B57-C4; | A68-B57-C5;                | A68-B57-C6;                | A68-B57-C7; | A68-B57-C8;                | A68-B57-C9;               |
| A69-B57-C1; | A69-B57-C2;                | A69-B57-C3;                | A69-B57-C4; | A69-B57-C5;                | A69-B57-C6;               |
| A69-B57-C7; | A69-B57-C8;                | A69-B57-C9;                | A70-B57-C1; | A70-B57-C2;                | A70-B57-C3;               |
| A70-B57-C4; | A70-B57-C5;                | A70-B57-C6;                | A70-B57-C1; | A70-B57-C8;                | A70-B57-C9;               |
| A71-B57-C1; | A70-B57-C3;<br>A71-B57-C2; | A70-B57-C0;<br>A71-B57-C3; | A70-B57-C7; | A70-B57-C8;<br>A71-B57-C5; |                           |
| A71-B57-C7; | A71-B57-C2;                | A71-B57-C9;                | A1-B58-C1;  | A1-B58-C2;                 | A71-B57-C6;<br>A1-B58-C3; |
|             |                            |                            |             | A1-B58-C2;                 |                           |
| A1-B58-C4;  | A1-B58-C5;                 | A1-B58-C6;                 | A1-B58-C7;  |                            | A1-B58-C9;                |
| A2-B58-C1;  | A2-B58-C2;                 | A2-B58-C3;                 | A2-B58-C4;  | A2-B58-C5;                 | A2-B58-C6;                |
| A2-B58-C7;  | A2-B58-C8;                 | A2-B58-C9;                 | A3-B58-C1;  | A3-B58-C2;                 | A3-B58-C3;                |
| A3-B58-C4;  | A3-B58-C5;                 | A3-B58-C6;                 | A3-B58-C7;  | A3-B58-C8;                 | A3-B58-C9;                |
| A4-B58-C1;  | A4-B58-C2;                 | A4-B58-C3;                 | A4-B58-C4;  | A4-B58-C5;                 | A4-B58-C6;                |
| A4-B58-C7;  | A4-B58-C8;                 | A4-B58-C9;                 | A5-B58-C1;  | A5-B58-C2;                 | A5-B58-C3;                |
| A5-B58-C4;  | A5-B58-C5;                 | A5-B58-C6;                 | A5-B58-C7;  | A5-B58-C8;                 | A5-B58-C9;                |
| A6-B58-C1;  | A6-B58-C2;                 | A6-B58-C3;                 | A6-B58-C4;  | A6-B58-C5;                 | A6-B58-C6;                |
| A6-B58-C7;  | A6-B58-C8;                 | A6-B58-C9;                 | A7-B58-C1;  | A7-B58-C2;                 | A7-B58-C3;                |
| A7-B58-C4;  | A7-B58-C5;                 | A7-B58-C6;                 | A7-B58-C7;  | A7-B58-C8;                 | A7-B58-C9;                |
| A8-B58-C1;  | A8-B58-C2;                 | A8-B58-C3;                 | A8-B58-C4;  | A8-B58-C5;                 | A8-B58-C6;                |
| A8-B58-C7;  | A8-B58-C8;                 | A8-B58-C9;                 | A9-B58-C1;  | A9-B58-C2;                 | A9-B58-C3;                |
| A9-B58-C4;  | A9-B58-C5;                 | A9-B58-C6;                 | A9-B58-C7;  | A9-B58-C8;                 | A9-B58-C9;                |
| A10-B58-C1; | A10-B58-C2;                | A10-B58-C3;                | A10-B58-C4; | A10-B58-C5;                | A10-B58-C6;               |
| A10-B58-C7; | A10-B58-C8;                | A10-B58-C9;                | A11-B58-C1; | A11-B58-C2                 | A11-B58-C3;               |
| A11-B58-C4; | A11-B58-C5;                | A11-B58-C6;                | A11-B58-C7; | A11-B58-C8;                | A11-B58-C9;               |
| A12-B58-C1; | A12-B58-C2;                | A12-B58-C3;                | A12-B58-C4; | A12-B58-C5;                | A12-B58-C6;               |
| A12-B58-C7; | A12-B58-C8;                | A12-B58-C9;                | A13-B58-C1; | A13-B58-C2;                | A13-B58-C3;               |
| A13-B58-C4; | A13-B58-C5;                | A13-B58-C6;                | A13-B58-C7; | A13-B58-C8;                | A13-B58-C9;               |
| A14-B58-C1; | A14-B58-C2;                | A14-B58-C3;                | A14-B58-C4; | A14-B58-C5;                | A14-B58-C6;               |
| A14-B58-C7; | A14-B58-C8;                | A14-B58-C9;                | A15-B58-C1; | A15-B58-C2;                | A15-B58-C3;               |
| A15-B58-C4; | A15-B58-C5;                | A15-B58-C6;                | A15-B58-C7; | A15-B58-C8;                | A15-B58-C9;               |
| A16-B58-C1; | A16-B58-C2;                | A16-B58-C3;                | A16-B58-C4; | A16-B58-C5;                | A16-B58-C6;               |
| A16-B58-C7; | A16-B58-C8;                | A16-B58-C9;                | A17-B58-C1; | A17-B58-C2;                | A17-B58-C3;               |
| A17-B58-C4; | A17-B58-C5;                | A17-B58-C6;                | A17-B58-C7; | A17-B58-C8;                | A17-B58-C9;               |
| A18-B58-C1; | A18-B58-C2;                | A18-B58-C3;                | A18-B58-C4; | A18-B58-C5;                | A18-B58-C6;               |
| A18-B58-C7; | A18-B58-C8;                | A18-B58-C9;                | A19-B58-C1; | A19-B58-C2;                | A19-B58-C3;               |
| A19-B58-C4; | A19-B58-C5;                | A19-B58-C6;                | A19-B58-C7; | A19-B58-C8;                | A19-B58-C9;               |
| A20-B58-C1; | A20-B58-C2;                | A20-B58-C3;                | A20-B58-C4; | A20-B58-C5;                | A20-B58-C6;               |
| A20-B58-C7; | A20-B58-C8;                | A20-B58-C9;                | A21-B58-C1; | A21-B58-C2;                | A21-B58-C3;               |
| A21-B58-C4; | A21-B58-C5;                | A21-B58-C6;                | A21-B58-C7; | A21-B58-C8;                | A21-B58-C9;               |
|             |                            |                            |             |                            |                           |

| A22-B58-C1;                | A22-B58-C2;                | A22-B58-C3;                           | A22-B58-C4;                | A22-B58-C5;                | A22-B58-C6;                |
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| A22-B58-C7;                | A22-B58-C8;                | A22-B58-C9;                           | A23-B58-C1;                | A23-B58-C2;                | A23-B58-C3;                |
| A23-B58-C4;                | A23-B58-C5;                | A23-B58-C6;                           | A23-B58-C7;                | A23-B58-C8;                | A23-B58-C9;                |
| A24-B58-C1;                | A24-B58-C2;                | A24-B58-C3;                           | A24-B58-C4;                | A24-B58-C5;                | A24-B58-C6;                |
| A24-B58-C7;                | A24-B58-C8;                | A24-B58-C9;                           | A25-B58-C1;                | A25-B58-C2;                | A25-B58-C3;                |
| A25-B58-C4;                | A25-B58-C5;                | A25-B58-C6;                           | A25-B58-C7;                | A25-B58-C8;                | A25-B58-C9;                |
| A26-B58-C1;                | A26-B58-C2;                | A26-B58-C3;                           | A26-B58-C4;                | A26-B58-C5;                | A26-B58-C6;                |
| A26-B58-C7;                | A26-B58-C8;                | A26-B58-C9;                           | A27-B58-C1;                | A27-B58-C2;                | A27-B58-C3;                |
| A27-B58-C4;                | A27-B58-C5;                | A27-B58-C6;                           | A27-B58-C7;                | A27-B58-C8;                | A27-B58-C9;                |
| A28-B58-C1;                | A28-B58-C2;                | A28-B58-C3;                           | A28-B58-C4;                | A28-B58-C5;                | A28-B58-C6;                |
| A28-B58-C7;                | A28-B58-C8;                | A28-B58-C9;                           | A29-B58-C1;                | A29-B58-C2;                | A29-B58-C3;                |
| A29-B58-C4;                | A29-B58-C5;                | A29-B58-C6;                           | A29-B58-C7;                | A29-B58-C8;                | A29-B58-C9;                |
| A30-B58-C1;                | A30-B58-C2;                | A30-B58-C3;                           | A30-B58-C4;                | A30-B58-C5;                | A30-B58-C6;                |
| A30-B58-C7;                | A30-B58-C8;                | A30-B58-C9;                           | A31-B58-C1;                | A31-B58-C2;                | A31-B58-C3;                |
| A31-B58-C4;                | A31-B58-C5;                | A31-B58-C6;                           | A31-B58-C7;                | A31-B58-C8;                | A31-B58-C9;                |
| A32-B58-C1;                | A32-B58-C2;                | A32-B58-C3;                           | A32-B58-C4;                | A32-B58-C5;                | A32-B58-C6;                |
| A32-B58-C7;                | A32-B58-C8;                | A32-B58-C9;                           | A33-B58-C1;                | A33-B58-C2;                | A33-B58-C3;                |
| A33-B58-C4;                | A33-B58-C5;                | A33-B58-C6;                           | A33-B58-C7;                | A33-B58-C8;                | A33-B58-C9;                |
| A34-B58-C1;                | A34-B58-C2;                | A34-B58-C3;                           | A34-B58-C4;                | A34-B58-C5;                | A34-B58-C6;                |
| A34-B58-C7;                | A34-B58-C8;                | A34-B58-C9;                           | A35-B58-C1;                | A35-B58-C2;                | A35-B58-C3;                |
| A35-B58-C4;                | A35-B58-C5;                | A35-B58-C6;                           | A35-B58-C7;                | A35-B58-C8;                | A35-B58-C9;                |
| A36-B58-C1;                | A36-B58-C2;                | A36-B58-C3;                           | A36-B58-C4;                | A36-B58-C5;                | A36-B58-C6;                |
| A36-B58-C7;                | A36-B58-C8;                | A36-B58-C9;                           | A37-B58-C1;                | A37-B58-C2;                | A37-B58-C3;                |
| A37-B58-C4;                | A37-B58-C5;                | A37-B58-C6;                           | A37-B58-C7;                | A37-B58-C8;                | A37-B58-C9;                |
| A38-B58-C1;                | A38-B58-C2;                | A38-B58-C3;                           | A38-B58-C4;                | A38-B58-C5;                | A38-B58-C6;                |
| A38-B58-C7;                | A38-B58-C8;                | A38-B58-C9;                           | A39-B58-C1;                | A39-B58-C2;                | A39-B58-C3;                |
| A39-B58-C4;                | A39-B58-C5;                | A38-B58-C6;                           | A39-B58-C1;                | A39-B58-C2;<br>A39-B58-C8; | A39-B58-C9;                |
| A40-B58-C1;                | A40-B58-C2;                | A40-B58-C3;                           | A40-B58-C4;                | A40-B58-C5;                | A40-B58-C6;                |
| A40-B58-C7;                | A40-B58-C2;<br>A40-B58-C8; | A40-B58-C9;                           | A40-B58-C4;<br>A41-B58-C1; | A40-B58-C3;                |                            |
| A41-B58-C4;                | A40-B58-C8;<br>A41-B58-C5; | A40-B58-C9;<br>A41-B58-C6;            | A41-B58-C7;                | A41-B58-C8;                | A41-B58-C3;<br>A41-B58-C9; |
| A42-B58-C1;                | A41-B58-C3;<br>A42-B58-C2; | A42-B58-C3;                           | A41-B58-C7;<br>A42-B58-C4; | A41-B58-C8;<br>A42-B58-C5; | A41-B58-C9;<br>A42-B58-C6; |
| A42-B58-C7;                | A42-B58-C2;<br>A42-B58-C8; | A42-B58-C9;                           | A42-B58-C4;<br>A43-B58-C1; | A43-B58-C2;                | A43-B58-C3;                |
| A43-B58-C4;                | A42-B58-C5;                | A42-B58-C9;<br>A43-B58-C6;            | A43-B58-C7;                | A43-B58-C8;                | A43-B58-C9;                |
| A44-B58-C1;                | A44-B58-C2;                | A44-B58-C3;                           | A44-B58-C4;                | A44-B58-C5;                | A44-B58-C6;                |
| A44-B58-C7;                | A44-B58-C8;                | A44-B58-C9;                           | A45-B58-C1;                | A45-B58-C2;                | A45-B58-C3;                |
| A45-B58-C4;                | A45-B58-C5;                | A45-B58-C6;                           | A45-B58-C7;                |                            |                            |
| A46-B58-C1;                | A46-B58-C2;                | A46-B58-C3;                           | A46-B58-C4;                | A45-B58-C8;<br>A46-B58-C5; | A45-B58-C9;<br>A46-B58-C6; |
| A46-B58-C7;                | A46-B58-C8;                | A46-B58-C9;                           | A47-B58-C1;                | A40-B58-C3;<br>A47-B58-C2; | A40-B58-C3;                |
| A47-B58-C4;                | A47-B58-C5;                | A47-B58-C6;                           | A47-B58-C1;<br>A47-B58-C7; | A47-B58-C2;<br>A47-B58-C8; | A47-B58-C9;                |
| A48-B58-C1;                | A47-B58-C5;<br>A48-B58-C2; | A48-B58-C3;                           | A47-B58-C7;<br>A48-B58-C4; | A48-B58-C5;                | A48-B58-C6;                |
| A48-B58-C7;                | A48-B58-C8;                | A48-B58-C9;                           | A49-B58-C1;                | A49-B58-C2;                | A49-B58-C3;                |
| A49-B58-C4;                | A49-B58-C5;                | A49-B58-C6;                           | A49-B58-C7;                | A49-B58-C8;                | A49-B58-C9;                |
| A50-B58-C1;                | A50-B58-C2;                | A50-B58-C3;                           | A50-B58-C4;                | A50-B58-C5;                | A50-B58-C6;                |
| A50-B58-C7;                | A50-B58-C2;<br>A50-B58-C8; | A50-B58-C9;                           | A50-B58-C4;<br>A51-B58-C1; | A50-B58-C3;                | A50-B58-C3;                |
| A51-B58-C4;                | A51-B58-C5;                | A51-B58-C6;                           | A51-B58-C7;                | A51-B58-C8;                | A51-B58-C9;                |
| A52-B58-C1;                | A51-B58-C5;                | A51-B58-C0;<br>A52-B58-C3;            | A52-B58-C4;                | A51-B58-C5;                | A51-B58-C6;                |
| A52-B58-C7;                | A52-B58-C2;                | A52-B58-C9;                           | A53-B58-C1;                | A52-B58-C3;                | A53-B58-C3;                |
| A53-B58-C4;                |                            |                                       | ·                          |                            |                            |
| A54-B58-C1;                | A53-B58-C5;<br>A54-B58-C2; | A53-B58-C6;<br>A54-B58-C3;            | A53-B58-C7;                | A53-B58-C8;<br>A54-B58-C5; | A53-B58-C9;                |
| A54-B58-C7;                | · ·                        | · · · · · · · · · · · · · · · · · · · | A54-B58-C4;<br>A55-B58-C1; | •                          | A54-B58-C6;                |
| A55-B58-C4;                | A54-B58-C8;                | A54-B58-C9;                           |                            | A55-B58-C2;<br>A55-B58-C8; | A55-B58-C3;<br>A55-B58-C9; |
| •                          | A55-B58-C5;                | A55-B58-C6;                           | A55-B58-C7;                | •                          | ,                          |
| A56-B58-C1;                | A56-B58-C2;                | A56-B58-C3;                           | A56-B58-C4;                | A56-B58-C5;                | A56-B58-C6;                |
| A56-B58-C7;<br>A57-B58-C4; | A56-B58-C8;                | A56-B58-C9;                           | A57-B58-C1;                | A57-B58-C2;                | A57-B58-C3;                |
| A57-B58-C4;<br>A58-B58-C1; | A57-B58-C5;<br>A58-B58-C2; | A57-B58-C6;<br>A58-B58-C3;            | A57-B58-C7;<br>A58-B58-C4; | A57-B58-C8;                | A57-B58-C9;<br>A58-B58-C6; |
| дэо-вэо-С1;                | AJ0-DJ0-C4;                | MJ0-DJ0-CJ;                           | AJ0-DJ0-C4;                | A58-B58-C5;                | A30-D30-C0;                |

| A58-B58-C7;                | A58-B58-C8;                | A58-B58-C9;                | A59-B58-C1;                | A59-B58-C2;                | A59-B58-C3;                |
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| A59-B58-C4;                | A59-B58-C5;                | A59-B58-C6;                | A59-B58-C7;                | A59-B58-C8;                | A59-B58-C9;                |
| A60-B58-C1;                | A60-B58-C2;                | A60-B58-C3;                | A60-B58-C4;                | A60-B58-C5;                | A60-B58-C6;                |
|                            |                            |                            |                            | A61-B58-C2;                |                            |
| A60-B58-C7;                | A60-B58-C8;                | A60-B58-C9;                | A61-B58-C1;                |                            | A61-B58-C3;                |
| A61-B58-C4;                | A61-B58-C5;                | A61-B58-C6;                | A61-B58-C7;                | A61-B58-C8;                | A61-B58-C9;                |
| A62-B58-C1;                | A62-B58-C2;                | A62-B58-C3;                | A62-B58-C4;                | A62-B58-C5;                | A62-B58-C6;                |
| A62-B58-C7;                | A62-B58-C8;                | A62-B58-C9;                | A63-B58-C1;                | A63-B58-C2;                | A63-B58-C3;                |
| A63-B58-C4;                | A63-B58-C5;                | A63-B58-C6;                | A63-B58-C7;                | A63-B58-C8;                | A63-B58-C9;                |
| A64-B58-C1;                | A64-B58-C2;                | A64-B58-C3;                | A64-B58-C4;                | A64-B58-C5;                | A64-B58-C6;                |
| A64-B58-C7;                | A64-B58-C8;                | A64-B58-C9;                | A65-B58-C1;                | A65-B58-C2;                | A65-B58-C3;                |
| A65-B58-C4;                | A65-B58-C5;                | A65-B58-C6;                | A65-B58-C7;                | A65-B58-C8;                | A65-B58-C9;                |
| A66-B58-C1;                | A66-B58-C2;                | A66-B58-C3;                | A66-B58-C4;                | A66-B58-C5;                | A66-B58-C6;                |
| A66-B58-C7;                | A66-B58-C8;                | A66-B58-C9;                | A67-B58-C1;                | A67-B58-C2;                | A67-B58-C3;                |
| A67-B58-C4;                | A67-B58-C5;                | A67-B58-C6;                | A67-B58-C7;                | A67-B58-C8;                | A67-B58-C9;                |
| A68-B58-C1;                | A68-B58-C2;                | A68-B58-C3;                | A68-B58-C4;                | A68-B58-C5;                | A68-B58-C6;                |
| A68-B58-C7;                | A68-B58-C8;                | A68-B58-C9;                | A69-B58-C1;                | A69-B58-C2;                | A69-B58-C3;                |
| A69-B58-C4;                | A69-B58-C5;                | A69-B58-C6;                | A69-B58-C7;                | A69-B58-C8;                | A69-B58-C9;                |
| A70-B58-C1;                | A70-B58-C2;                | A70-B58-C3;                | A70-B58-C4;                | A70-B58-C5;                | A70-B58-C6;                |
| A70-B58-C7;                | A70-B58-C8;                | A70-B58-C9;                | A71-B58-C1;                | A71-B58-C2;                | A71-B58-C3;                |
| A71-B58-C4;                | A71-B58-C5;                | A71-B58-C6;                | A71-B58-C7;                | A71-B58-C8;                | A71-B58-C9;                |
| A1-B59-C1;                 | A1-B59-C2;                 | A1-B59-C3;                 | A1-B59-C4;                 | A1-B59-C5;                 | A1-B59-C6;                 |
| A1-B59-C7;                 | A1-B59-C8;                 | A1-B59-C9;                 | A2-B59-C1;                 | A2-B59-C2;                 | A2-B59-C3;                 |
| A2-B59-C4;                 | A2-B59-C5;                 | A2-B59-C6;                 | A2-B59-C7;                 | A2-B59-C8;                 | A2-B59-C9;                 |
| A3-B59-C1;                 | A3-B59-C2;                 | A3-B59-C3;                 | A3-B59-C4;                 | A3-B59-C5;                 | A3-B59-C6;                 |
| A3-B59-C7;                 | A3-B59-C8;                 | A3-B59-C9;                 | A4-B59-C1;                 | A4-B59-C2;                 |                            |
|                            |                            |                            |                            |                            | A4-B59-C3;                 |
| A4-B59-C4;                 | A4-B59-C5;                 | A4-B59-C6;                 | A4-B59-C7;                 | A4-B59-C8;                 | A4-B59-C9;                 |
| A5-B59-C1;                 | A5-B59-C2;                 | A5-B59-C3;                 | A5-B59-C4;                 | A5-B59-C5;                 | A5-B59-C6;                 |
| A5-B59-C7;                 | A5-B59-C8;                 | A5-B59-C9;                 | A6-B59-C1;                 | A6-B59-C2;                 | A6-B59-C3;                 |
| A6-B59-C4;                 | A6-B59-C5;                 | A6-B59-C6;                 | A6-B59-C7;                 | A6-B59-C8;                 | A6-B59-C9;                 |
| A7-B59-C1;                 | A7-B59-C2;                 | A7-B59-C3;                 | A7-B59-C4;                 | A7-B59-C5;                 | A7-B59-C6;                 |
| A7-B59-C7;                 | A7-B59-C8;                 | A7-B59-C9;                 | A8-B59-C1;                 | A8-B59-C2;                 | A8-B59-C3;                 |
| A8-B59-C4;                 | A8-B59-C5;                 | A8-B59-C6;                 | A8-B59-C7;                 | A8-B59-C8;                 | A8-B59-C9;                 |
| A9-B59-C1;                 | A9-B59-C2;                 | A9-B59-C3;                 | A9-B59-C4;                 | A9-B59-C5;                 | A9-B59-C6;                 |
| A9-B59-C7;                 | A9-B59-C8;                 | A9-B59-C9;                 | A10-B59-C1;                | A10-B59-C2;                | A10-B59-C3;                |
| A10-B59-C4;                | A10-B59-C5;                | A10-B59-C6;                | A10-B59-C7;                | A10-B59-C8;                | A10-B59-C9;                |
| A11-B59-C1;                | A11-B59-C2;                | A11-B59-C3;                | A11-B59-C4;                | A11-B59-C5;                | A11-B59-C6;                |
| A11-B59-C7;                | A11-B59-C8;                | A11-B59-C9;                | A12-B59-C1;                | A12-B59-C2;                | A12-B59-C3;                |
| A12-B59-C4;                | A12-B59-C5;                | A12-B59-C6;                | A12-B59-C7;                | A12-B59-C8;                | A12-B59-C9;                |
| A13-B59-C1;                | A13-B59-C2;                | A13-B59-C3;                | A13-B59-C4;                | A13-B59-C5;                | A13-B59-C6;                |
| A13-B59-C7;                | A13-B59-C8;                | A13-B59-C9;                | A14-B59-C1;                | A14-B59-C2;                | A14-B59-C3;                |
| A14-B59-C4;                | A14-B59-C5;                | A14-B59-C6;                | A14-B59-C7;                | A14-B59-C8;                | A14-B59-C9;                |
| A15-B59-C1;                | A15-B59-C2;                | A15-B59-C3;                | A15-B59-C4;                | A15-B59-C5;                | A15-B59-C6;                |
| A15-B59-C7;                | A15-B59-C8;                | A15-B59-C9;                | A16-B59-C1;                | A16-B59-C2;                | A16-B59-C3;                |
| A16-B59-C4;                | A16-B59-C5;                | A16-B59-C6;                | A16-B59-C7;                | A16-B59-C8;                | A16-B59-C9;                |
| A17-B59-C1;                | A17-B59-C2;                | A17-B59-C3;                | A17-B59-C4;                | A17-B59-C5;                | A17-B59-C6;                |
| A17-B59-C7;                | A17-B59-C8;                | A17-B59-C9;                | A18-B59-C1;                | A18-B59-C2;                | A18-B59-C3;                |
| A18-B59-C4;                | A18-B59-C5;                | A18-B59-C6;                | A18-B59-C7;                | A18-B59-C8;                | A18-B59-C9;                |
| A19-B59-C1;                | A19-B59-C2;                | A19-B59-C3;                | A19-B59-C4;                | A19-B59-C5;                | A19-B59-C6;                |
| A19-B59-C1;                | A19-B59-C2;                | A19-B59-C9;                | A20-B59-C1;                | A20-B59-C2;                | A20-B59-C3;                |
| A20-B59-C4;                | A20-B59-C5;                | A20-B59-C6;                | A20-B59-C1;<br>A20-B59-C7; | A20-B59-C2;<br>A20-B59-C8; | A20-B59-C9;                |
| A20-B59-C4;<br>A21-B59-C1; | A20-B59-C3;<br>A21-B59-C2; | A20-B59-C0;<br>A21-B59-C3; | A20-B59-C7;<br>A21-B59-C4; | A20-B59-C6;<br>A21-B59-C5; | A20-B39-C9;<br>A21-B59-C6; |
| A21-B59-C1;<br>A21-B59-C7; |                            |                            |                            |                            |                            |
|                            | A21-B59-C8;                | A21-B59-C9;                | A22-B59-C1;                | A22-B59-C2;                | A22-B59-C3;                |
| A22-B59-C4;                | A22-B59-C5;                | A22-B59-C6;                | A22-B59-C7;                | A22-B59-C8;                | A22-B59-C9;                |
| A23-B59-C1;                | A23-B59-C2;                | A23-B59-C3;                | A23-B59-C4;                | A23-B59-C5;                | A23-B59-C6;                |
| A23-B59-C7;                | A23-B59-C8;                | A23-B59-C9;                | A24-B59-C1;                | A24-B59-C2;                | A24-B59-C3;                |

| A24-B59-C4; | A24-B59-C5; | A24-B59-C6; | A24-B59-C7; | A24-B59-C8; | A24-B59-C9; |
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| A25-B59-C7; | A25-B59-C8; | A25-B59-C9; | A26-B59-C1; | A26-B59-C2; | A26-B59-C3; |
| A26-B59-C4; | A26-B59-C5; | A26-B59-C6; | A26-B59-C7; | A26-B59-C8; | A26-B59-C9; |
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| A27-B59-C7; | A27-B59-C8; | A27-B59-C9; | A28-B59-C1; | A28-B59-C2; | A28-B59-C3; |
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| A33-B59-C7; | A33-B59-C8; | A33-B59-C9; | A34-B59-C1; | A34-B59-C2; | A34-B59-C3; |
| A34-B59-C4; | A34-B59-C5; | A34-B59-C6; | A34-B59-C7; | A34-B59-C8; | A34-B59-C9; |
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| A37-B59-C7; | A37-B59-C8; | A37-B59-C9; | A38-B59-C1; | A38-B59-C2; | A38-B59-C3; |
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| A39-B59-C1; | A39-B59-C2; | A39-B59-C3; | A39-B59-C4; | A39-B59-C5; | A39-B59-C6; |
| A39-B59-C7; | A39-B59-C8; | A39-B59-C9; | A40-B59-C1; | A40-B59-C2; | A40-B59-C3; |
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| A41-B59-C7; | A41-B59-C8; | A41-B59-C9; | A42-B59-C1; | A42-B59-C2; | A42-B59-C3; |
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| A45-B59-C7; | A45-B59-C8; | A45-B59-C9; | A46-B59-C1; | A46-B59-C2; | A46-B59-C3; |
| A46-B59-C4; | A46-B59-C5; | A46-B59-C6; | A46-B59-C7; | A46-B59-C8; | A46-B59-C9; |
| A47-B59-C1; | A47-B59-C2; | A47-B59-C3; | A47-B59-C4; | A47-B59-C5; | A47-B59-C6; |
| A47-B59-C7; | A47-B59-C8; | A47-B59-C9; | A48-B59-C1; | A48-B59-C2; | A48-B59-C3; |
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| A49-B59-C1; | A49-B59-C2; | A49-B59-C3; | A49-B59-C4; | A49-B59-C5; | A49-B59-C6; |
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| A50-B59-C4; | A50-B59-C5; | A50-B59-C6; | A50-B59-C7; | A50-B59-C8; | A50-B59-C9; |
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| A51-B59-C7; | A51-B59-C8; | A51-B59-C9; | A52-B59-C1; | A52-B59-C2; | A52-B59-C3; |
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| A53-B59-C1; | A53-B59-C2; | A53-B59-C3; | A53-B59-C4; | A53-B59-C5; | A53-B59-C6; |
| A53-B59-C7; | A53-B59-C8; | A53-B59-C9; | A54-B59-C1; | A54-B59-C2; | A54-B59-C3; |
| A54-B59-C4; | A54-B59-C5; | A54-B59-C6; | A54-B59-C7; | A54-B59-C8; | A54-B59-C9; |
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| A55-B59-C7; | A55-B59-C8; | A55-B59-C9; | A56-B59-C1; | A56-B59-C2; | A56-B59-C3; |
| A56-B59-C4; | A56-B59-C5; | A56-B59-C6; | A56-B59-C7; | A56-B59-C8; | A56-B59-C9; |
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| A57-B59-C7; | A57-B59-C8; | A57-B59-C9; | A58-B59-C1; | A58-B59-C2; | A58-B59-C3; |
| A58-B59-C4; | A58-B59-C5; | A58-B59-C6; | A58-B59-C7; | A58-B59-C8; | A58-B59-C9; |
| A59-B59-C1; | A59-B59-C2; | A59-B59-C3; | A59-B59-C4; | A59-B59-C5; | A59-B59-C6; |
| A59-B59-C7; | A59-B59-C8; | A59-B59-C9; | A60-B59-C1; | A60-B59-C2; | A60-B59-C3; |
| A60-B59-C4; | A60-B59-C5; | A60-B59-C6; | A60-B59-C7; | A60-B59-C8; | A60-B59-C9; |

| A 61 D 50 G1 | A C 1 D S 0 C 2. | A C 1 D S 0 C 2 . | A 61 D 50 C 4 | A C 1 D S 0 C S | A ( 1 D ( 0 C ( ) |
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| A61-B59-C7;  | A61-B59-C8;      | A61-B59-C9;       | A62-B59-C1;   | A62-B59-C2;     | A62-B59-C3;       |
| A62-B59-C4;  | A62-B59-C5;      | A62-B59-C6;       | A62-B59-C7;   | A62-B59-C8;     | A62-B59-C9;       |
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| A63-B59-C7;  | A63-B59-C8;      | A63-B59-C9;       | A64-B59-C1;   | A64-B59-C2;     | A64-B59-C3;       |
| A64-B59-C4;  | A64-B59-C5;      | A64-B59-C6;       | A64-B59-C7;   | A64-B59-C8;     | A64-B59-C9;       |
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| A65-B59-C7;  | A65-B59-C8;      | A65-B59-C9;       | A66-B59-C1;   | A66-B59-C2;     | A66-B59-C3;       |
| A66-B59-C4;  | A66-B59-C5;      | A66-B59-C6;       | A66-B59-C7;   | A66-B59-C8;     | A66-B59-C9;       |
| A67-B59-C1;  | A67-B59-C2;      | A67-B59-C3;       | A67-B59-C4;   | A67-B59-C5;     | A67-B59-C6;       |
| A67-B59-C7;  | A67-B59-C8;      | A67-B59-C9;       | A68-B59-C1;   | A68-B59-C2;     | A68-B59-C3;       |
| A68-B59-C4;  | A68-B59-C5;      | A68-B59-C6;       | A68-B59-C7;   | A68-B59-C8;     | A68-B59-C9;       |
| A69-B59-C1;  | A69-B59-C2;      | A69-B59-C3;       | A69-B59-C4;   | A69-B59-C5;     | A69-B59-C6;       |
| A69-B59-C7;  | A69-B59-C8;      | A69-B59-C9;       | A70-B59-C1;   | A70-B59-C2;     | A70-B59-C3;       |
| A70-B59-C4;  | A70-B59-C5;      | A70-B59-C6;       | A70-B59-C1;   | A70-B59-C2;     | A70-B59-C9;       |
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| A71-B59-C7;  | A71-B59-C8;      | A71-B59-C9;       | A1-B60-C1;    | A1-B60-C2;      | A1-B60-C3;        |
| A1-B60-C4;   | A1-B60-C5;       | A1-B60-C6;        | A1-B60-C7;    | A1-B60-C8;      | A1-B60-C9;        |
| A2-B60-C1;   | A2-B60-C2;       | A2-B60-C3;        | A2-B60-C4;    | A2-B60-C5;      | A2-B60-C6;        |
| A2-B60-C7;   | A2-B60-C8;       | A2-B60-C9;        | A3-B60-C1;    | A3-B60-C2;      | A3-B60-C3;        |
| A3-B60-C4;   | A3-B60-C5;       | A3-B60-C6;        | A3-B60-C7;    | A3-B60-C8;      | A3-B60-C9;        |
| A4-B60-C1;   | A4-B60-C2;       | A4-B60-C3;        | A4-B60-C4;    | A4-B60-C5;      | A4-B60-C6;        |
| A4-B60-C7;   | A4-B60-C8;       | A4-B60-C9;        | A5-B60-C1;    | A5-B60-C2;      | A5-B60-C3;        |
| A5-B60-C4;   | A5-B60-C5;       | A5-B60-C6;        | A5-B60-C7;    | A5-B60-C8;      | A5-B60-C9;        |
| A6-B60-C1;   | A6-B60-C2;       | A6-B60-C3;        | A6-B60-C4;    | A6-B60-C5;      | A6-B60-C6;        |
| A6-B60-C7;   | A6-B60-C8;       | A6-B60-C9;        | A7-B60-C1;    | A7-B60-C2;      | A7-B60-C3;        |
| A7-B60-C4;   | A7-B60-C5;       | A7-B60-C6;        | A7-B60-C7;    | A7-B60-C8;      | A7-B60-C9;        |
| A8-B60-C1;   | A8-B60-C2;       | A8-B60-C3;        | A8-B60-C4;    | A8-B60-C5;      | A8-B60-C6;        |
| A8-B60-C7;   | A8-B60-C8;       | A8-B60-C9;        | A9-B60-C1;    | A9-B60-C2;      | A9-B60-C3;        |
| A9-B60-C4;   | A9-B60-C5;       | A9-B60-C6;        | A9-B60-C7;    | A9-B60-C8;      | A9-B60-C9;        |
| A10-B60-C1;  | A10-B60-C2;      | A10-B60-C3;       | A10-B60-C4;   | A10-B60-C5;     | A10-B60-C6;       |
| A10-B60-C7;  | A10-B60-C8;      | A10-B60-C9;       | A11-B60-C1;   | A11-B60-C2;     | A11-B60-C3;       |
| A11-B60-C4;  | A11-B60-C5;      | A11-B60-C6;       | A11-B60-C7;   | A11-B60-C8;     | A11-B60-C9;       |
| A12-B60-C1;  | A12-B60-C2;      | A12-B60-C3;       | A12-B60-C4;   | A12-B60-C5;     | A12-B60-C6;       |
| A12-B60-C7;  | A12-B60-C8;      | A12-B60-C9;       | A13-B60-C1;   | A13-B60-C2;     | A13-B60-C3;       |
| A13-B60-C4;  | A13-B60-C5;      | A13-B60-C6;       | A13-B60-C7;   | A13-B60-C8;     | A13-B60-C9;       |
| A14-B60-C1;  | A14-B60-C2;      | A14-B60-C3;       | A14-B60-C4;   | A14-B60-C5;     | A14-B60-C6;       |
|              |                  |                   |               |                 | A15-B60-C3;       |
| A14-B60-C7;  | A14-B60-C8;      | A14-B60-C9;       | A15-B60-C1;   | A15-B60-C2;     |                   |
| A15-B60-C4;  | A15-B60-C5;      | A15-B60-C6;       | A15-B60-C7;   | A15-B60-C8;     | A15-B60-C9;       |
| A16-B60-C1;  | A16-B60-C2;      | A16-B60-C3;       | A16-B60-C4;   | A16-B60-C5;     | A16-B60-C6;       |
| A16-B60-C7;  | A16-B60-C8;      | A16-B60-C9;       | A17-B60-C1;   | A17-B60-C2;     | A17-B60-C3;       |
| A17-B60-C4;  | A17-B60-C5;      | A17-B60-C6;       | A17-B60-C7;   | A17-B60-C8;     | A17-B60-C9;       |
| A18-B60-C1;  | A18-B60-C2;      | A18-B60-C3;       | A18-B60-C4;   | A18-B60-C5;     | A18-B60-C6;       |
| A18-B60-C7;  | A18-B60-C8;      | A18-B60-C9;       | A19-B60-C1;   | A19-B60-C2;     | A19-B60-C3;       |
| A19-B60-C4;  | A19-B60-C5;      | A19-B60-C6;       | A19-B60-C7;   | A19-B60-C8;     | A19-B60-C9;       |
| A20-B60-C1;  | A20-B60-C2;      | A20-B60-C3;       | A20-B60-C4;   | A20-B60-C5;     | A20-B60-C6;       |
| A20-B60-C7;  | A20-B60-C8;      | A20-B60-C9;       | A21-B60-C1;   | A21-B60-C2;     | A21-B60-C3;       |
| A21-B60-C4;  | A21-B60-C5;      | A21-B60-C6;       | A21-B60-C7;   | A21-B60-C8;     | A21-B60-C9;       |
| A22-B60-C1;  | A22-B60-C2;      | A22-B60-C3;       | A22-B60-C4;   | A22-B60-C5;     | A22-B60-C6;       |
| A22-B60-C7;  | A22-B60-C8;      | A22-B60-C9;       | A23-B60-C1;   | A23-B60-C2;     | A23-B60-C3;       |
| A23-B60-C4;  | A23-B60-C5;      | A23-B60-C6;       | A23-B60-C7;   | A23-B60-C8;     | A23-B60-C9;       |
| A24-B60-C1;  | A24-B60-C2;      | A24-B60-C3;       | A24-B60-C4;   | A24-B60-C5;     | A24-B60-C6;       |
| A24-B60-C7;  | A24-B60-C8;      | A24-B60-C9;       | A25-B60-C1;   | A25-B60-C2;     | A25-B60-C3;       |
| A25-B60-C4;  | A25-B60-C5;      | A25-B60-C6;       | A25-B60-C7;   | A25-B60-C8;     | A25-B60-C9;       |
| A26-B60-C1;  | A26-B60-C2;      | A26-B60-C3;       | A26-B60-C4;   | A26-B60-C5;     | A26-B60-C6;       |
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| A26-B60-C7;  | A26-B60-C8;                | A26-B60-C9;                | A27-B60-C1;                | A27-B60-C2;                | A27-B60-C3;                |
|--------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A27-B60-C4;  | A27-B60-C5;                | A27-B60-C6;                | A27-B60-C7;                | A27-B60-C8;                | A27-B60-C9;                |
| A28-B60-C1;  | A28-B60-C2;                | A28-B60-C3;                | A28-B60-C4;                | A28-B60-C5;                | A28-B60-C6;                |
| A28-B60-C7;  | A28-B60-C8;                | A28-B60-C9;                | A29-B60-C1;                | A29-B60-C2;                | A29-B60-C3;                |
| A29-B60-C4;  | A29-B60-C5;                | A29-B60-C6;                | A29-B60-C7;                | A29-B60-C8;                | A29-B60-C9;                |
| A30-B60-C1;  | A30-B60-C2;                | A30-B60-C3;                | A30-B60-C4;                | A30-B60-C5;                | A30-B60-C6;                |
| A30-B60-C7;  | A30-B60-C8;                | A30-B60-C9;                | A31-B60-C1;                | A31-B60-C2;                | A31-B60-C3;                |
| A31-B60-C4;  | A31-B60-C5;                | A31-B60-C6;                | A31-B60-C7;                | A31-B60-C8;                | A31-B60-C9;                |
| A32-B60-C1;  | A32-B60-C2;                | A32-B60-C3;                | A32-B60-C4;                | A32-B60-C5;                | A32-B60-C6;                |
| A32-B60-C7;  | A32-B60-C8;                | A32-B60-C9;                | A33-B60-C1;                | A33-B60-C2;                | A33-B60-C3;                |
| A33-B60-C4;  | A33-B60-C5;                | A33-B60-C6;                | A33-B60-C7;                | A33-B60-C8;                | A33-B60-C9;                |
| A34-B60-C1;  | A34-B60-C2;                | A34-B60-C3;                | A34-B60-C4;                | A34-B60-C5;                | A34-B60-C6;                |
| A34-B60-C7;  | A34-B60-C8;                | A34-B60-C9;                | A35-B60-C1;                | A35-B60-C2;                | A35-B60-C3;                |
| A35-B60-C4;  | A35-B60-C5;                | A35-B60-C6;                | A35-B60-C7;                | A35-B60-C8;                | A35-B60-C9;                |
| A36-B60-C1;  | A36-B60-C2;                | A36-B60-C3;                | A36-B60-C4;                | A36-B60-C5;                | A36-B60-C6;                |
| A36-B60-C7;  | A36-B60-C8;                | A36-B60-C9;                | A37-B60-C1;                | A37-B60-C2;                | A37-B60-C3;                |
| A37-B60-C4;  | A37-B60-C5;                | A37-B60-C6;                | A37-B60-C7;                | A37-B60-C8;                | A37-B60-C9;                |
| A38-B60-C1;  | A38-B60-C2;                | A38-B60-C3;                | A38-B60-C4;                | A38-B60-C5;                | A38-B60-C6;                |
| A38-B60-C7;  | A38-B60-C8;                | A38-B60-C9;                | A39-B60-C1;                | A39-B60-C2;                | A39-B60-C3;                |
| A39-B60-C4;  | A39-B60-C5;                | A39-B60-C6;                | A39-B60-C7;                | A39-B60-C8;                | A39-B60-C9;                |
| A40-B60-C1;  | A40-B60-C2;                | A40-B60-C3;                | A40-B60-C4;                | A40-B60-C5;                | A40-B60-C6;                |
| A40-B60-C7;  | A40-B60-C2;                | A40-B60-C9;                | A41-B60-C1;                | A41-B60-C2;                | A41-B60-C3;                |
| A41-B60-C4;  | A41-B60-C5;                | A41-B60-C6;                | A41-B60-C7;                | A41-B60-C8;                | A41-B60-C9;                |
| A42-B60-C1;  | A42-B60-C2;                | A42-B60-C3;                | A42-B60-C4;                | A42-B60-C5;                | A42-B60-C6;                |
| A42-B60-C7;  | A42-B60-C8;                | A42-B60-C9;                | A43-B60-C1;                | A43-B60-C2;                | A43-B60-C3;                |
| A43-B60-C4;  | A43-B60-C5;                | A43-B60-C6;                | A43-B60-C7;                | A43-B60-C2;                | A43-B60-C9;                |
| A44-B60-C1;  | A44-B60-C2;                | A44-B60-C3;                | A44-B60-C4;                | A44-B60-C5;                | A44-B60-C6;                |
| A44-B60-C7;  | A44-B60-C8;                | A44-B60-C9;                | A45-B60-C1;                | A45-B60-C2;                | A45-B60-C3;                |
| A45-B60-C4;  | A45-B60-C5;                | A45-B60-C6;                | A45-B60-C7;                | A45-B60-C2;                | A45-B60-C9;                |
| A46-B60-C1;  | A46-B60-C2;                | A46-B60-C3;                | A46-B60-C4;                | A46-B60-C5;                | A46-B60-C6;                |
| A46-B60-C7;  | A46-B60-C2;                | A46-B60-C9;                | A47-B60-C1;                | A47-B60-C2;                | A47-B60-C3;                |
| A47-B60-C4;  | A47-B60-C5;                | A47-B60-C6;                | A47-B60-C1;                | A47-B60-C2;                | A47-B60-C9;                |
| A48-B60-C1;  | A48-B60-C2;                | A48-B60-C3;                | A48-B60-C4;                | A48-B60-C5;                | A48-B60-C6;                |
| A48-B60-C7;  | A48-B60-C8;                | A48-B60-C9;                | A49-B60-C1;                | A49-B60-C2;                | A49-B60-C3;                |
| A49-B60-C4;  | A49-B60-C5;                | A49-B60-C6;                | A49-B60-C7;                | A49-B60-C8;                | A49-B60-C9;                |
| A50-B60-C1;  | A50-B60-C2;                | A50-B60-C3;                | A50-B60-C4;                | A50-B60-C5;                | A50-B60-C6;                |
| A50-B60-C7;  | A50-B60-C8;                | A50-B60-C9;                | A51-B60-C1;                | A51-B60-C2;                | A51-B60-C3;                |
| A51-B60-C4;  | A51-B60-C5;                | A51-B60-C6;                | A51-B60-C7;                | A51-B60-C2;                | A51-B60-C9;                |
| A52-B60-C1;  | A51-B60-C3;                | A51-B60-C6;<br>A52-B60-C3; | A51-B60-C7;<br>A52-B60-C4; | A51-B60-C6;<br>A52-B60-C5; | A52-B60-C6;                |
| A52-B60-C7;  | A52-B60-C8;                | A52-B60-C9;                | A53-B60-C1;                | A53-B60-C2;                | A53-B60-C3;                |
| A53-B60-C4;  | A53-B60-C5;                | A53-B60-C6;                | A53-B60-C7;                | A53-B60-C2;                | A53-B60-C9;                |
| A54-B60-C1;  | A54-B60-C2;                | A54-B60-C3;                | A54-B60-C4;                | A54-B60-C5;                | A54-B60-C6;                |
| A54-B60-C7;  | A54-B60-C2;                | A54-B60-C9;                | A55-B60-C1;                | A55-B60-C2;                | A55-B60-C3;                |
| A55-B60-C4;  | A55-B60-C5;                | A55-B60-C6;                | A55-B60-C7;                | A55-B60-C2;                | A55-B60-C9;                |
| A56-B60-C1;  | A56-B60-C2;                | A56-B60-C3;                | A56-B60-C4;                | A56-B60-C5;                | A56-B60-C6;                |
| A56-B60-C7;  | A56-B60-C8;                | A56-B60-C9;                | A57-B60-C1;                | A57-B60-C2;                | A57-B60-C3;                |
| A57-B60-C4;  | A57-B60-C5;                | A57-B60-C6;                | A57-B60-C1;                | A57-B60-C2;                | A57-B60-C9;                |
| A58-B60-C1;  | A57-B60-C3;<br>A58-B60-C2; | A58-B60-C3;                | A58-B60-C4;                | A58-B60-C5;                | A58-B60-C6;                |
| A58-B60-C7;  | A58-B60-C8;                | A58-B60-C9;                | A59-B60-C1;                | A59-B60-C2;                | A59-B60-C3;                |
| A59-B60-C4;  | A59-B60-C5;                | A59-B60-C6;                | A59-B60-C1;                | A59-B60-C2;<br>A59-B60-C8; | A59-B60-C9;                |
| A60-B60-C1;  | A60-B60-C2;                | A60-B60-C3;                | A60-B60-C4;                | A60-B60-C5;                | A59-B60-C9;<br>A60-B60-C6; |
| A60-B60-C7;  | A60-B60-C2;                | A60-B60-C9;                | A61-B60-C1;                | A61-B60-C2;                | A61-B60-C3;                |
| A61-B60-C4;  | A61-B60-C5;                | A61-B60-C6;                | A61-B60-C7;                | A61-B60-C2;                | A61-B60-C9;                |
| A62-B60-C1;  | A62-B60-C2;                | A62-B60-C3;                | A62-B60-C4;                | A62-B60-C5;                | A62-B60-C6;                |
| A62-B60-C7;  | A62-B60-C2;                | A62-B60-C9;                | A63-B60-C1;                | A63-B60-C2;                | A63-B60-C3;                |
| 1102-D00-C1, | 1102-200-00,               | 1102-200-03,               | 1105-D00-C1,               | 1105-1500-02,              | 1105-D00-C3,               |

| A63-B60-C4; | A63-B60-C5; | A63-B60-C6; | A63-B60-C7; | A63-B60-C8; | A63-B60-C9; |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A64-B60-C1; | A64-B60-C2; | A64-B60-C3; | A64-B60-C4; | A64-B60-C5; | A64-B60-C6; |
| A64-B60-C7; | A64-B60-C8: | A64-B60-C9; | A65-B60-C1; | A65-B60-C2; | A65-B60-C3; |
| A65-B60-C4; | A65-B60-C5; | A65-B60-C6; | A65-B60-C7; | A65-B60-C8; | A65-B60-C9; |
| A66-B60-C1; | A66-B60-C2; | A66-B60-C3; | A66-B60-C4; | A66-B60-C5; | A66-B60-C6; |
| A66-B60-C7; | A66-B60-C8; | A66-B60-C9; | A67-B60-C1; | A67-B60-C2; | A67-B60-C3; |
| A67-B60-C4; | A67-B60-C5; | A67-B60-C6; | A67-B60-C7; | A67-B60-C8; | A67-B60-C9; |
| A68-B60-C1; | A68-B60-C2; | A68-B60-C3; | A68-B60-C4; | A68-B60-C5; | A68-B60-C6; |
| A68-B60-C7; | A68-B60-C8; | A68-B60-C9; | A69-B60-C1; | A69-B60-C2; | A69-B60-C3; |
| A69-B60-C4; | A69-B60-C5; | A69-B60-C6; | A69-B60-C7; | A69-B60-C8; | A69-B60-C9; |
| A70-B60-C1; | A70-B60-C2; | A70-B60-C3; | A70-B60-C4; | A70-B60-C5; | A70-B60-C6; |
| A70-B60-C7; | A70-B60-C8; | A70-B60-C9; | A71-B60-C1; | A71-B60-C2; | A71-B60-C3; |
| A71-B60-C4; | A71-B60-C5; | A71-B60-C6; | A71-B60-C7; | A71-B60-C8; | A71-B60-C9; |
| A1-B61-C1;  | A1-B61-C2;  | A1-B61-C3;  | A1-B61-C4;  | A1-B61-C5;  | A1-B61-C6;  |
| A1-B61-C7;  | A1-B61-C8;  | A1-B61-C9;  | A2-B61-C1;  | A2-B61-C2;  | A2-B61-C3;  |
| A2-B61-C4;  | A2-B61-C5;  | A2-B61-C6;  | A2-B61-C7;  | A2-B61-C8;  | A2-B61-C9;  |
| A3-B61-C1;  | A3-B61-C2;  | A3-B61-C3;  | A3-B61-C4;  | A3-B61-C5;  | A3-B61-C6;  |
| A3-B61-C7;  | A3-B61-C8;  | A3-B61-C9;  | A4-B61-C1;  | A4-B61-C2;  | A4-B61-C3;  |
| A4-B61-C4;  | A4-B61-C5;  | A4-B61-C6;  | A4-B61-C7;  | A4-B61-C2;  | A4-B61-C9;  |
| •           |             |             |             | A5-B61-C5;  |             |
| A5-B61-C1;  | A5-B61-C2;  | A5-B61-C3;  | A5-B61-C4;  |             | A5-B61-C6;  |
| A5-B61-C7;  | A5-B61-C8;  | A5-B61-C9;  | A6-B61-C1;  | A6-B61-C2;  | A6-B61-C3;  |
| A6-B61-C4;  | A6-B61-C5;  | A6-B61-C6;  | A6-B61-C7;  | A6-B61-C8;  | A6-B61-C9;  |
| A7-B61-C1;  | A7-B61-C2;  | A7-B61-C3;  | A7-B61-C4;  | A7-B61-C5;  | A7-B61-C6;  |
| A7-B61-C7;  | A7-B61-C8;  | A7-B61-C9;  | A8-B61-C1;  | A8-B61-C2;  | A8-B61-C3;  |
| A8-B61-C4;  | A8-B61-C5;  | A8-B61-C6;  | A8-B61-C7;  | A8-B61-C8;  | A8-B61-C9;  |
| A9-B61-C1;  | A9-B61-C2;  | A9-B61-C3;  | A9-B61-C4;  | A9-B61-C5;  | A9-B61-C6;  |
| A9-B61-C7;  | A9-B61-C8;  | A9-B61-C9;  | A10-B61-C1; | A10-B61-C2; | A10-B61-C3; |
| A10-B61-C4; | A10-B61-C5; | A10-B61-C6; | A10-B61-C7; | A10-B61-C8; | A10-B61-C9; |
| AII-B61-C1; | A11-B61-C2; | A11-B61-C3; | A11-B61-C4; | A11-B61-C5; | A11-B61-C6; |
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| A26-B62-C7; | A26-B62-C8; | A26-B62-C9; | A27-B62-C1; | A27-B62-C2; | A27-B62-C3; |
| A27-B62-C4; | A27-B62-C5; | A27-B62-C6; | A27-B62-C7; | A27-B62-C8; | A27-B62-C9; |
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| A28-B62-C7; | A28-B62-C8; | A28-B62-C9; | A29-B62-C1; | A29-B62-C2; | A29-B62-C3; |
| A29-B62-C4; | A29-B62-C5; | A29-B62-C6; | A29-B62-C7; | A29-B62-C8; | A29-B62-C9; |
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| A30-B62-C7; | A30-B62-C8; | A30-B62-C9; | A31-B62-C1; | A31-B62-C2; | A31-B62-C3; |

| A31-B62-C4; | A31-B62-C5;  | A31-B62-C6; | A31-B62-C7; | A31-B62-C8;   | A31-B62-C9; |
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| A64-B62-C7; | A64-B62-C8;  | A64-B62-C9; | A65-B62-C1; | A65-B62-C2;   | A65-B62-C3; |
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| A66-B62-C7; | A66-B62-C8;  | A66-B62-C9; | A67-B62-C1; | A67-B62-C2;   | A67-B62-C3; |
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| A68-B62-C7; |                            |             |             |             |             |
|             | A68-B62-C8;                | A68-B62-C9; | A69-B62-C1; | A69-B62-C2; | A69-B62-C3; |
| A69-B62-C4; | A69-B62-C5;                | A69-B62-C6; | A69-B62-C7; | A69-B62-C8; | A69-B62-C9; |
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| A70-B62-C7; | A70-B62-C8;                | A70-B62-C9; | A71-B62-C1; | A71-B62-C2; | A71-B62-C3; |
| A71-B62-C4; | A71-B62-C5;                | A71-B62-C6; | A71-B62-C7; | A/1-B62-C8; | A71-B62-C9; |
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| A1-B63-C7;  | A1-B63-C8;                 | A1-B63-C9;  | A2-B63-C1;  | A2-B63-C2;  | A2-B63-C3;  |
| A2-B63-C4;  | A2-B63-C5;                 | A2-B63-C6;  | A2-B63-C7;  | A2-B63-C8;  | A2-B63-C9;  |
| A3-B63-C1;  | A3-B63-C2;                 | A3-B63-C3;  | A3-B63-C4;  | A3-B63-C5;  | A3-B63-C6;  |
| A3-B63-C7;  | A3-B63-C8;                 | A3-B63-C9;  | A4-B63-C1;  | A4-B63-C2;  | A4-B63-C3;  |
| A4-B63-C4;  | A4-B63-C5;                 | A4-B63-C6;  | A4-B63-C7;  | A4-B63-C8;  | A4-B63-C9;  |
| A5-B63-C1;  | A5-B63-C2;                 | A5-B63-C3;  | A5-B63-C4;  | A5-B63-C5;  | A5-B63-C6;  |
| A5-B63-C7;  | A5-B63-C8;                 | A5-B63-C9;  | A6-B63-C1;  | A6-B63-C2;  | A6-B63-C3;  |
| A6-B63-C4;  | A6-B63-C5;                 | A6-B63-C6;  | A6-B63-C7;  | A6-B63-C8;  | A6-B63-C9;  |
| A7-B63-C1;  | A7-B63-C2;                 | A7-B63-C3;  | A7-B63-C4;  | A7-B63-C5;  | A7-B63-C6;  |
| A7-B63-C7;  | A7-B63-C8;                 | A7-B63-C9;  | A8-B63-C1;  | A8-B63-C2;  | A8-B63-C3;  |
| A8-B63-C4;  | A8-B63-C5;                 | A8-B63-C6;  | A8-B63-C7;  | A8-B63-C8;  | A8-B63-C9;  |
| A9-B63-C1;  | A9-B63-C2;                 | A9-B63-C3;  | A9-B63-C4;  | A9-B63-C5;  | A9-B63-C6;  |
| A9-B63-C7;  | A9-B63-C8;                 | A9-B63-C9;  | A10-B63-C1; | A10-B63-C2; | A10-B63-C3; |
| A10-B63-C4; | A10-B63-C5;                | A10-B63-C6; |             | A10-B63-C8; |             |
|             |                            |             | A10-B63-C7; |             | A10-B63-C9; |
| A11-B63-C1; | A11-B63-C2;                | A11-B63-C3; | A11-B63-C4; | A11-B63-C5; | A11-B63-C6; |
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| A13-B63-C1; | A13-B63-C2;                | A13-B63-C3; | A13-B63-C4; | A13-B63-C5; | A13-B63-C6; |
| A13-B63-C7; | A13-B63-C8;                | A13-B63-C9; | A14-B63-C1; | A14-B63-C2; | A14-B63-C3; |
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| A15-B63-C1; | A15-B63-C2;                | A15-B63-C3; | A15-B63-C4; | A15-B63-C5; | A15-B63-C6; |
| A15-B63-C7; | A15-B63-C8;                | A15-B63-C9; | A16-B63-C1; | A16-B63-C2; | A16-B63-C3; |
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| A17-B63-C7; | A17-B63-C8;                | A17-B63-C9; | A18-B63-C1; | A18-B63-C2; | A18-B63-C3; |
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| A19-B63-C7; | A19-B63-C8;                | A19-B63-C9; | A20-B63-C1; | A20-B63-C2; | A20-B63-C3; |
| A20-B63-C4; | A20-B63-C5;                | A20-B63-C6; | A20-B63-C7; | A20-B63-C8; | A20-B63-C9; |
| A21-B63-C1; | A21-B63-C2;                | A21-B63-C3; | A21-B63-C4; | A21-B63-C5; | A21-B63-C6; |
| A21-B63-C7; | A21-B63-C8;                | A21-B63-C9; | A22-B63-C1; | A22-B63-C2; | A22-B63-C3; |
| A22-B63-C4; | A22-B63-C5;                | A22-B63-C6; | A22-B63-C7; | A22-B63-C8; | A22-B63-C9; |
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| A25-B63-C7; | A25-B63-C2;<br>A25-B63-C8; |             | A26-B63-C1; | A26-B63-C2; | A26-B63-C3; |
| A26-B63-C4; | ·                          | A25-B63-C9; |             |             |             |
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| A27-B63-C1; | A27-B63-C2;                | A27-B63-C3; | A27-B63-C4; | A27-B63-C5; | A27-B63-C6; |
| A27-B63-C7; | A27-B63-C8;                | A27-B63-C9; | A28-B63-C1; | A28-B63-C2; | A28-B63-C3; |
| A28-B63-C4; | A28-B63-C5;                | A28-B63-C6; | A28-B63-C7; | A28-B63-C8; | A28-B63-C9; |
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| A29-B63-C7; | A29-B63-C8;                | A29-B63-C9; | A30-B63-C1; | A30-B63-C2; | A30-B63-C3; |
| A30-B63-C4; | A30-B63-C5;                | A30-B63-C6; | A30-B63-C7; | A30-B63-C8; | A30-B63-C9; |
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| A31-B63-C7; | A31-B63-C8;                | A31-B63-C9; | A32-B63-C1; | A32-B63-C2; | A32-B63-C3; |
| A32-B63-C4; | A32-B63-C5;                | A32-B63-C6; | A32-B63-C7; | A32-B63-C8; | A32-B63-C9; |
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| A35-B63-C1; | A35-B63-C2; | A35-B63-C3; | A35-B63-C4; | A35-B63-C5; | A35-B63-C6; |
| A35-B63-C7; | A35-B63-C8; | A35-B63-C9; | A36-B63-C1; | A36-B63-C2; | A36-B63-C3; |
| A36-B63-C4; | A36-B63-C5; | A36-B63-C6; | A36-B63-C7; | A36-B63-C8; | A36-B63-C9; |
| A37-B63-C1; | A37-B63-C2; | A37-B63-C3; | A37-B63-C4; | A37-B63-C5; | A37-B63-C6; |
|             |             | A37-B63-C9; | A38-B63-C1; | A37-B63-C3; | A38-B63-C3; |
| A37-B63-C7; | A37-B63-C8; |             |             | A38-B63-C8; | A38-B63-C9; |
| A38-B63-C4; | A38-B63-C5; | A38-B63-C6; | A38-B63-C7; |             |             |
| A39-B63-C1; | A39-B63-C2; | A39-B63-C3; | A39-B63-C4; | A39-B63-C5; | A39-B63-C6; |
| A39-B63-C7; | A39-B63-C8; | A39-B63-C9; | A40-B63-C1; | A40-B63-C2; | A40-B63-C3; |
| A40-B63-C4; | A40-B63-C5; | A40-B63-C6; | A40-B63-C7; | A40-B63-C8; | A40-B63-C9; |
| A41-B63-C1; | A41-B63-C2; | A41-B63-C3; | A41-B63-C4; | A41-B63-C5; | A41-B63-C6; |
| A41-B63-C7; | A41-B63-C8; | A41-B63-C9; | A42-B63-C1; | A42-B63-C2; | A42-B63-C3; |
| A42-B63-C4; | A42-B63-C5; | A42-B63-C6; | A42-B63-C7; | A42-B63-C8; | A42-B63-C9; |
| A43-B63-C1; | A43-B63-C2; | A43-B63-C3; | A43-B63-C4; | A43-B63-C5; | A43-B63-C6; |
| A43-B63-C7; | A43-B63-C8; | A43-B63-C9; | A44-B63-C1; | A44-B63-C2; | A44-B63-C3; |
| A44-B63-C4; | A44-B63-C5; | A44-B63-C6; | A44-B63-C7; | A44-B63-C8; | A44-B63-C9; |
| A45-B63-C1; | A45-B63-C2; | A45-B63-C3; | A45-B63-C4; | A45-B63-C5; | A45-B63-C6; |
| A45-B63-C7; | A45-B63-C8; | A45-B63-C9; | A46-B63-C1; | A46-B63-C2; | A46-B63-C3; |
| A46-B63-C4; | A46-B63-C5; | A46-B63-C6; | A46-B63-C7; | A46-B63-C8; | A46-B63-C9; |
| A47-B63-C1; | A47-B63-C2; | A47-B63-C3; | A47-B63-C4; | A47-B63-C5; | A47-B63-C6; |
| A47-B63-C7; | A47-B63-C8; | A47-B63-C9; | A48-B63-C1; | A48-B63-C2; | A48-B63-C3; |
| A48-B63-C4; | A48-B63-C5; | A48-B63-C6; | A48-B63-C7; | A48-B63-C8; | A48-B63-C9; |
| A49-B63-C1; | A49-B63-C2; | A49-B63-C3; | A49-B63-C4; | A49-B63-C5; | A49-B63-C6; |
| A49-B63-C7; | A49-B63-C8; | A49-B63-C9; | A50-B63-C1; | A50-B63-C2; | A50-B63-C3; |
| A50-B63-C4; | A50-B63-C5; | A50-B63-C6; | A50-B63-C7; | A50-B63-C8; | A50-B63-C9; |
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| A51-B63-C7; | A51-B63-C8; | A51-B63-C9; | A52-B63-C1; | A52-B63-C2; | A52-B63-C3; |
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| A53-B63-C1; | A53-B63-C2; | A53-B63-C3; | A53-B63-C4; | A53-B63-C5; | A53-B63-C6; |
| A53-B63-C7; | A53-B63-C8; | A53-B63-C9; | A54-B63-C1; | A54-B63-C2; | A54-B63-C3; |
| A54-B63-C4; | A54-B63-C5; | A54-B63-C6; | A54-B63-C7; | A54-B63-C8; | A54-B63-C9; |
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| A55-B63-C7; | A55-B63-C8; | A55-B63-C9; | A56-B63-C1; | A56-B63-C2; | A56-B63-C3; |
| A56-B63-C4; | A56-B63-C5; | A56-B63-C6; | A56-B63-C7; | A56-B63-C8; | A56-B63-C9; |
| A57-B63-C1; | A57-B63-C2; | A57-B63-C3; | A57-B63-C4; | A57-B63-C5; | A57-B63-C6; |
| A57-B63-C7; | A57-B63-C8; | A57-B63-C9; | A58-B63-C1; | A58-B63-C2; | A58-B63-C3; |
| A58-B63-C4; | A58-B63-C5; | A58-B63-C6; | A58-B63-C7; | A58-B63-C8; | A58-B63-C9; |
| A59-B63-C1; | A59-B63-C2; | A59-B63-C3; | A59-B63-C4; | A59-B63-C5; | A59-B63-C6; |
| A59-B63-C7; | A59-B63-C8; | A59-B63-C9; | A60-B63-C1; | A60-B63-C2; | A60-B63-C3; |
| A60-B63-C4; | A60-B63-C5; | A60-B63-C6; | A60-B63-C7; | A60-B63-C8; | A60-B63-C9; |
| A61-B63-C1; | A61-B63-C2; | A61-B63-C3; | A61-B63-C4; | A61-B63-C5; | A61-B63-C6; |
| A61-B63-C7; | A61-B63-C8; | A61-B63-C9; | A62-B63-C1; | A62-B63-C2; | A62-B63-C3; |
| A62-B63-C4; | A62-B63-C5; | A62-B63-C6; | A62-B63-C7; | A62-B63-C8; | A62-B63-C9; |
| A63-B63-C1; | A63-B63-C2; | A63-B63-C3; | A63-B63-C4; | A63-B63-C5; | A63-B63-C6; |
| A63-B63-C7; | A63-B63-C8; | A63-B63-C9; | A64-B63-C1; | A64-B63-C2; | A64-B63-C3; |
| A64-B63-C4; | A64-B63-C5; | A64-B63-C6; | A64-B63-C7; | A64-B63-C8; | A64-B63-C9; |
| A65-B63-C1; | A65-B63-C2; | A65-B63-C3; | A65-B63-C4; | A65-B63-C5; | A65-B63-C6; |
| A65-B63-C7; | A65-B63-C8; | A65-B63-C9; | A66-B63-C1; | A66-B63-C2; | A66-B63-C3; |
| A66-B63-C4; | A66-B63-C5; | A66-B63-C6; | A66-B63-C7; | A66-B63-C8; | A66-B63-C9; |
| A67-B63-C1; | A67-B63-C2; | A67-B63-C3; | A67-B63-C4; | A67-B63-C5; | A67-B63-C6; |
| A67-B63-C7; | A67-B63-C8; | A67-B63-C9; | A68-B63-C1; | A68-B63-C2; | A68-B63-C3; |
| A68-B63-C4; | A68-B63-C5; | A68-B63-C6; | A68-B63-C7; | A68-B63-C8; | A68-B63-C9; |
| A69-B63-C1; | A69-B63-C2; | A69-B63-C3; | A69-B63-C4; | A69-B63-C5; | A69-B63-C6; |
| A69-B63-C7; | A69-B63-C8; | A69-B63-C9; | A70-B63-C1; | A70-B63-C2; | A70-B63-C3; |

| A70-B63-C4;                | A70-B63-C5;                | A70-B63-C6;                | A70-B63-C7; | A70-B63-C8;                | A70-B63-C9;                |
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| A71-B63-C1;                | A71-B63-C2;                | A71-B63-C3;                | A71-B63-C4; | A71-B63-C5;                | A71-B63-C6;                |
| A71-B63-C7;                | A71-B63-C8;                | A71-B63-C9;                | A1-B64-C1;  | A1-B64-C2;                 | A1-B64-C3;                 |
| A1-B64-C4;                 | A1-B64-C5;                 | A1-B64-C6;                 | A1-B64-C7;  | A1-B64-C8;                 | A1-B64-C9;                 |
| A2-B64-C1;                 | A2-B64-C2;                 | A2-B64-C3;                 | A2-B64-C4;  | A2-B64-C5;                 | A2-B64-C6;                 |
| A2-B64-C7;                 | A2-B64-C8;                 | A2-B64-C9;                 | A3-B64-C1;  | A3-B64-C2;                 | A3-B64-C3;                 |
| A3-B64-C4;                 | A3-B64-C5;                 | A3-B64-C6;                 | A3-B64-C7;  | A3-B64-C8;                 | A3-B64-C9;                 |
| A4-B64-C1;                 | A4-B64-C2;                 | A4-B64-C3;                 | A4-B64-C4;  | A4-B64-C5;                 | A4-B64-C6;                 |
| A4-B64-C7;                 | A4-B64-C8;                 | A4-B64-C9;                 | A5-B64-C1;  | A5-B64-C2;                 | A5-B64-C3;                 |
| A5-B64-C4;                 | A5-B64-C5;                 | A5-B64-C6;                 | A5-B64-C7;  | A5-B64-C8;                 | A5-B64-C9;                 |
| A6-B64-C1;                 | A6-B64-C2;                 | A6-B64-C3;                 | A6-B64-C4;  | A6-B64-C5;                 | A6-B64-C6;                 |
| A6-B64-C7;                 | A6-B64-C8;                 | A6-B64-C9;                 | A7-B64-C1;  | A7-B64-C2;                 | A7-B64-C3;                 |
| A7-B64-C4;                 | A7-B64-C5;                 | A7-B64-C6;                 | A7-B64-C7;  | A7-B64-C8;                 | A7-B64-C9;                 |
| A8-B64-C1;                 | A8-B64-C2;                 | A8-B64-C3;                 | A8-B64-C4;  | A8-B64-C5;                 | A8-B64-C6;                 |
| A8-B64-C7;                 | A8-B64-C8;                 | A8-B64-C9;                 | A9-B64-C1;  | A9-B64-C2;                 | A9-B64-C3;                 |
| A9-B64-C4;                 | A9-B64-C5;                 | A9-B64-C6;                 | A9-B64-C7;  | A9-B64-C8;                 | A9-B64-C9;                 |
| A10-B64-C1;                | A10-B64-C2;                | A10-B64-C3;                | A10-B64-C4; | A10-B64-C5;                | A10-B64-C6;                |
| A10-B64-C7;                | A10-B64-C8;                | A10-B64-C9;                | A11-B64-C1; | A11-B64-C2;                | A11-B64-C3;                |
| A11-B64-C4;                | A11-B64-C5;                | A11-B64-C6;                | A11-B64-C7; | A11-B64-C8;                | A11-B64-C9;                |
| A12-B64-C1;                | A12-B64-C2;                | A11-B64-C6;<br>A12-B64-C3; | A11-B64-C7; | A11-B64-C8;<br>A12-B64-C5; | A11-B04-C9;<br>A12-B64-C6; |
| A12-B64-C7;                | A12-B64-C2;                | A12-B64-C9;                | A13-B64-C1; | A12-B04-C3;<br>A13-B64-C2; |                            |
| A13-B64-C4;                | A13-B64-C5;                | A12-B64-C6;                | A13-B64-C1; | A13-B64-C2;                | A13-B64-C3;                |
| A14-B64-C1;                |                            |                            |             |                            | A13-B64-C9;                |
| A14-B64-C7;                | A14-B64-C2;                | A14-B64-C3;                | A14-B64-C4; | A14-B64-C5;                | A14-B64-C6;                |
|                            | A14-B64-C8;<br>A15-B64-C5; | A14-B64-C9;                | A15-B64-C1; | A15-B64-C2;                | A15-B64-C3;                |
| A15-B64-C4;<br>A16-B64-C1; | A15-B64-C3;                | A15-B64-C6;                | A15-B64-C7; | A15-B64-C8;                | A15-B64-C9;                |
|                            |                            | A16-B64-C3;                | A16-B64-C4; | A16-B64-C5;                | A16-B64-C6;                |
| A16-B64-C7;                | A16-B64-C8;                | A16-B64-C9;                | A17-B64-C1; | A17-B64-C2;                | A17-B64-C3;                |
| A17-B64-C4;                | A17-B64-C5;                | A17-B64-C6;                | A17-B64-C7; | A17-B64-C8;                | A17-B64-C9;                |
| A18-B64-C1;                | A18-B64-C2;                | A18-B64-C3;                | A18-B64-C4; | A18-B64-C5;                | A18-B64-C6;                |
| A18-B64-C7;                | A18-B64-C8;                | A18-B64-C9;                | A19-B64-C1; | A19-B64-C2;                | A19-B64-C3;                |
| A19-B64-C4;                | A19-B64-C5;                | A19-B64-C6;                | A19-B64-C7; | A19-B64-C8;                | A19-B64-C9;                |
| A20-B64-C1;                | A20-B64-C2;                | A20-B64-C3;                | A20-B64-C4; | A20-B64-C5;                | A20-B64-C6;                |
| A20-B64-C7;                | A20-B64-C8;                | A20-B64-C9;                | A21-B64-C1; | A21-B64-C2;                | A21-B64-C3;                |
| A21-B64-C4;                | A21-B64-C5;                | A21-B64-C6;                | A21-B64-C7; | A21-B64-C8;                | A21-B64-C9;                |
| A22-B64-C1;                | A22-B64-C2;                | A22-B64-C3;                | A22-B64-C4; | A22-B64-C5;                | A22-B64-C6;                |
| A22-B64-C7;                | A22-B64-C8;                | A22-B64-C9;                | A23-B64-C1; | A23-B64-C2;                | A23-B64-C3;                |
| A23-B64-C4;                | A23-B64-C5;                | A23-B64-C6;                | A23-B64-C7; | A23-B64-C8;                | A23-B64-C9;                |
| A24-B64-C1;                | A24-B64-C2;                | A24-B64-C3;                | A24-B64-C4; | A24-B64-C5;                | A24-B64-C6;                |
| A24-B64-C7;                | A24-B64-C8;                | A24-B64-C9;                | A25-B64-C1; | A25-B64-C2;                | A25-B64-C3;                |
| A25-B64-C4;                | A25-B64-C5;                | A25-B64-C6;                | A25-B64-C7; | A25-B64-C8;                | A25-B64-C9;                |
| A26-B64-C1;<br>A26-B64-C7; | A26-B64-C2;                | A26-B64-C3;                | A26-B64-C4; | A26-B64-C5;                | A26-B64-C6;                |
|                            | A26-B64-C8;                | A26-B64-C9;                | A27-B64-C1; | A27-B64-C2;                | A27-B64-C3;                |
| A27-B64-C4;<br>A28-B64-C1; | A27-B64-C5;                | A27-B64-C6;                | A27-B64-C7; | A27-B64-C8;                | A27-B64-C9;                |
| •                          | A28-B64-C2;<br>A28-B64-C8; | A28-B64-C3;                | A28-B64-C4; | A28-B64-C5;                | A28-B64-C6;                |
| A28-B64-C7;<br>A29-B64-C4; |                            | A28-B64-C9;                | A29-B64-C1; | A29-B64-C2;                | A29-B64-C3;                |
| ,                          | A29-B64-C5;                | A29-B64-C6;                | A29-B64-C7; | A29-B64-C8;                | A29-B64-C9;                |
| A30-B64-C1;                | A30-B64-C2;                | A30-B64-C3;                | A30-B64-C4; | A30-B64-C5;                | A30-B64-C6;                |
| A30-B64-C7;                | A30-B64-C8;                | A30-B64-C9;                | A31-B64-C1; | A31-B64-C2;                | A31-B64-C3;                |
| A31-B64-C4;                | A31-B64-C5;                | A31-B64-C6;                | A31-B64-C7; | A31-B64-C8;                | A31-B64-C9;                |
| A32-B64-C1;                | A32-B64-C2;                | A32-B64-C3;                | A32-B64-C4; | A32-B64-C5;                | A32-B64-C6;                |
| A32-B64-C7;                | A32-B64-C8;                | A32-B64-C9;                | A33-B64-C1; | A33-B64-C2;                | A33-B64-C3;                |
| A33-B64-C4;                | A33-B64-C5;                | A33-B64-C6;                | A33-B64-C7; | A33-B64-C8;                | A33-B64-C9;                |
| A34-B64-C1;                | A34-B64-C2;                | A34-B64-C3;                | A34-B64-C4; | A34-B64-C5;                | A34-B64-C6;                |
| A34-B64-C7;                | A34-B64-C8;                | A34-B64-C9;                | A35-B64-C1; | A35-B64-C2;                | A35-B64-C3;                |
| A35-B64-C4;                | A35-B64-C5;                | A35-B64-C6;                | A35-B64-C7; | A35-B64-C8;                | A35-B64-C9;                |

| A36-B64-C1; | A36-B64-C2; | A36-B64-C3; | A36-B64-C4; | A36-B64-C5; | A36-B64-C6; |
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| A36-B64-C7; | A36-B64-C8; | A36-B64-C9; | A37-B64-C1; | A37-B64-C2; | A37-B64-C3; |
| A37-B64-C4; | A37-B64-C5; | A37-B64-C6; | A37-B64-C7; | A37-B64-C8; | A37-B64-C9; |
| A38-B64-C1; | A38-B64-C2; | A38-B64-C3; | A38-B64-C4; | A38-B64-C5; | A38-B64-C6; |
| A38-B64-C7; | A38-B64-C8; | A38-B64-C9; | A39-B64-C1; | A39-B64-C2; | A39-B64-C3; |
| A39-B64-C4; | A39-B64-C5; | A39-B64-C6; | A39-B64-C7; | A39-B64-C8; | A39-B64-C9; |
| A40-B64-C1; | A40-B64-C2; | A40-B64-C3; | A40-B64-C4; | A40-B64-C5; | A40-B64-C6; |
| A40-B64-C7; | A40-B64-C8; | A40-B64-C9; | A41-B64-C1; | A41-B64-C2; | A41-B64-C3; |
| A41-B64-C4; | A41-B64-C5; | A41-B64-C6; | A41-B64-C7; | A41-B64-C8; | A41-B64-C9; |
| A42-B64-C1; | A42-B64-C2; | A42-B64-C3; | A42-B64-C4; | A42-B64-C5; | A42-B64-C6; |
| A42-B64-C7; | A42-B64-C8; | A42-B64-C9; | A43-B64-C1; | A43-B64-C2; | A43-B64-C3; |
| A43-B64-C4; | A43-B64-C5; | A43-B64-C6; | A43-B64-C7; | A43-B64-C8; | A43-B64-C9; |
| A44-B64-C1; | A44-B64-C2; | A44-B64-C3; | A44-B64-C4; | A44-B64-C5; | A44-B64-C6; |
| A44-B64-C7; | A44-B64-C8; | A44-B64-C9; | A45-B64-C1; | A45-B64-C2; | A45-B64-C3; |
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| A70-B64-C7; | A70-B64-C8; | A70-B64-C9; | A71-B64-C1; | A71-B64-C2; | A71-B64-C3; |
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| ,           |             |             | 200 04,     | 200 00,     | 202 00,     |

| A1-B65-C7;  | A1-B65-C8;  | A1-B65-C9;  | A2-B65-C1;  | A2-B65-C2;  | A2-B65-C3;  |
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| A3-B65-C7;  | A3-B65-C8;  | A3-B65-C9;  | A4-B65-C1;  | A4-B65-C2;  | A4-B65-C3;  |
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| A5-B65-C7;  | A5-B65-C8;  | A5-B65-C9;  | A6-B65-C1;  | A6-B65-C2;  | A6-B65-C3;  |
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| A39-B65-C7; | A39-B65-C8; | A39-B65-C9; | A40-B65-C1; | A40-B65-C2; | A40-B65-C3; |
| A40-B65-C4; | A40-B65-C5; | A40-B65-C6; | A40-B65-C7; | A40-B65-C8; | A40-B65-C9; |
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| A41-B65-C7; | A41-B65-C8; | A41-B65-C9; | A42-B65-C1; | A42-B65-C2; | A42-B65-C3; |
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| A2-B66-C1;  | A2-B66-C2;  | A2-B66-C3;  | A2-B66-C4;  | A2-B66-C5;  | A2-B66-C6;  |
| A2-B66-C7;  | A2-B66-C8;  | A2-B66-C9;  | A3-B66-C1;  | A3-B66-C2;  | A3-B66-C3;  |
| A3-B66-C4;  | A3-B66-C5;  | A3-B66-C6;  | A3-B66-C7;  | A3-B66-C8;  | A3-B66-C9;  |
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| A4-B66-C1;  | A4-B66-C2;  | A4-B66-C3;  | A4-B66-C4;  | A4-B66-C5;  | A4-B66-C6;  |
|-------------|-------------|-------------|-------------|-------------|-------------|
|             |             |             |             |             | A5-B66-C3;  |
| A4-B66-C7;  | A4-B66-C8;  | A4-B66-C9;  | A5-B66-C1;  | A5-B66-C2;  |             |
| A5-B66-C4;  | A5-B66-C5;  | A5-B66-C6;  | A5-B66-C7;  | A5-B66-C8;  | A5-B66-C9;  |
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| A6-B66-C7;  | A6-B66-C8;  | A6-B66-C9;  | A7-B66-C1;  | A7-B66-C2;  | A7-B66-C3;  |
| A7-B66-C4;  | A7-B66-C5;  | A7-B66-C6;  | A7-B66-C7;  | A7-B66-C8;  | A7-B66-C9;  |
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| A8-B66-C7;  | A8-B66-C8;  | A8-B66-C9;  | A9-B66-C1;  | A9-B66-C2;  | A9-B66-C3;  |
| A9-B66-C4;  | A9-B66-C5;  | A9-B66-C6;  | A9-B66-C7;  | A9-B66-C8;  | A9-B66-C9;  |
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| A10-B66-C7; | A10-B66-C8; | A10-B66-C9; | A11-B66-C1; | A11-B66-C2; | A11-B66-C3; |
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| A12-B66-C7; | A12-B66-C8; | A12-B66-C9; | A13-B66-C1; | A13-B66-C2; | A13-B66-C3; |
| A13-B66-C4; | A13-B66-C5; | A13-B66-C6; | A13-B66-C7; | A13-B66-C8; | A13-B66-C9; |
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| A14-B66-C7; | A14-B66-C8; | A14-B66-C9; | A15-B66-C1; | A15-B66-C2; | A15-B66-C3; |
| A15-B66-C4; | A15-B66-C5; | A15-B66-C6; | A15-B66-C7; | A15-B66-C8; | A15-B66-C9; |
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| A16-B66-C7; | A16-B66-C8; | A16-B66-C9; | A17-B66-C1; | A17-B66-C2; | A17-B66-C3; |
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| A34-B66-C7; | A34-B66-C8; | A34-B66-C9; | A35-B66-C1; | A35-B66-C2; | A35-B66-C3; |
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| A38-B66-C7; | A38-B66-C8; | A38-B66-C9; | A39-B66-C1; | A39-B66-C2; | A39-B66-C3; |
| A39-B66-C4; | A39-B66-C5; | A39-B66-C6; | A39-B66-C7; | A39-B66-C8; | A39-B66-C9; |
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| A40-B66-C7;                | A40-B66-C8;                | A40-B66-C9;                | A41-B66-C1;                | A41-B66-C2;                | A41-B66-C3;                |
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| A42-B66-C7;                | A42-B66-C8;                | A42-B66-C9;                | A43-B66-C1;                | A43-B66-C2;                | A43-B66-C3;                |
| A43-B66-C4;                | A43-B66-C5;                | A43-B66-C6;                | A43-B66-C7;                | A43-B66-C8;                | A43-B66-C9;                |
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| A44-B66-C7;                | A44-B66-C8;                | A44-B66-C9;                | A45-B66-C1;                | A45-B66-C2;                | A45-B66-C3;                |
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| A49-B66-C4;                | A49-B66-C5;                | A49-B66-C6;                | A49-B66-C7;                | A49-B66-C8;                | A49-B66-C9;                |
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| A50-B66-C7;                | A50-B66-C8;                | A50-B66-C9;                | A51-B66-C1;                | A51-B66-C2;                | A51-B66-C3;                |
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| A8-B67-C4;  | A8-B67-C5;   | A8-B67-C6;    | A8-B67-C7;   | A8-B67-C8;                 | A8-B67-C9;  |
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| A3-B68-C4;  | A3-B68-C5;  | A3-B68-C6;  | A3-B68-C7;  | A3-B68-C8;  | A3-B68-C9;  |
| A4-B68-C1;  | A4-B68-C2;  | A4-B68-C3;  | A4-B68-C4;  | A4-B68-C5;  | A4-B68-C6;  |
| A4-B68-C7;  | A4-B68-C8;  | A4-B68-C9;  | A5-B68-C1;  | A5-B68-C2;  | A5-B68-C3;  |
| A5-B68-C4;  | A5-B68-C5;  | A5-B68-C6;  | A5-B68-C7;  | A5-B68-C8;  | A5-B68-C9;  |
| A6-B68-C1;  | A6-B68-C2;  | A6-B68-C3;  | A6-B68-C4;  | A6-B68-C5;  | A6-B68-C6;  |
| A6-B68-C7;  | A6-B68-C8;  | A6-B68-C9;  | A7-B68-C1;  | A7-B68-C2;  | A7-B68-C3;  |
| A7-B68-C4;  | A7-B68-C5;  | A7-B68-C6;  | A7-B68-C7;  | A7-B68-C8;  | A7-B68-C9;  |
| A8-B68-C1;  | A8-B68-C2;  | A8-B68-C3;  | A8-B68-C4;  | A8-B68-C5;  | A8-B68-C6;  |
| •           | ,           | •           | •           | •           | ,           |

| A8-B68-C7;  | A8-B68-C8;  | A8-B68-C9;  | A9-B68-C1;  | A9-B68-C2;  | A9-B68-C3;  |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A9-B68-C4;  | A9-B68-C5;  | A9-B68-C6;  | A9-B68-C7;  | A9-B68-C8;  | A9-B68-C9;  |
| A10-B68-C1; | A10-B68-C2; | A10-B68-C3; | A10-B68-C4; | A10-B68-C5; | A10-B68-C6; |
| A10-B68-C7; | A10-B68-C8; | A10-B68-C9; | A11-B68-C1; | A11-B68-C2; | A11-B68-C3; |
| A11-B68-C4; | A11-B68-C5; | A11-B68-C6; | A11-B68-C7; | A11-B68-C8; | A11-B68-C9; |
| A12-B68-C1; | A12-B68-C2; | A12-B68-C3; | A12-B68-C4; | A12-B68-C5; | A12-B68-C6; |
| A12-B68-C7; | A12-B68-C8; | A12-B68-C9; | A13-B68-C1; | A13-B68-C2; | A13-B68-C3; |
| A13-B68-C4; | A13-B68-C5; | A13-B68-C6; | A13-B68-C7; | A13-B68-C8; | A13-B68-C9; |
| A14-B68-C1; | A14-B68-C2; | A14-B68-C3; | A14-B68-C4; | A14-B68-C5; | A14-B68-C6; |
| A14-B68-C7; | A14-B68-C8; | A14-B68-C9; | A15-B68-C1; | A15-B68-C2; | A15-B68-C3; |
| A15-B68-C4; | A15-B68-C5; | A15-B68-C6; | A15-B68-C7; | A15-B68-C8; | A15-B68-C9; |
| A16-B68-C1; | A16-B68-C2; | A16-B68-C3; | A16-B68-C4; | A16-B68-C5; | A16-B68-C6; |
| A16-B68-C7; | A16-B68-C8; | A16-B68-C9; | A17-B68-C1; | A17-B68-C2; | A17-B68-C3; |
| A17-B68-C4; | A17-B68-C5; | A17-B68-C6; | A17-B68-C7; | A17-B68-C8; | A17-B68-C9; |
| A18-B68-C1; | A18-B68-C2; | A18-B68-C3; | A18-B68-C4; | A18-B68-C5; | A18-B68-C6; |
| A18-B68-C7; | A18-B68-C8; | A18-B68-C9; | A19-B68-C1; | A19-B68-C2; | A19-B68-C3; |
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| A19-B68-C4; | A19-B68-C5; | A19-B68-C6; | A19-B68-C7; | A19-B68-C8; | A19-B68-C9; |
| A20-B68-C1; | A20-B68-C2; | A20-B68-C3; | A20-B68-C4; | A20-B68-C5; | A20-B68-C6; |
| A20-B68-C7; | A20-B68-C8; | A20-B68-C9; | A21-B68-C1; | A21-B68-C2; | A21-B68-C3; |
| A21-B68-C4; | A21-B68-C5; | A21-B68-C6; | A21-B68-C7; | A21-B68-C8; | A21-B68-C9; |
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| A22-B68-C7; | A22-B68-C8; | A22-B68-C9; | A23-B68-C1; | A23-B68-C2; | A23-B68-C3; |
| A23-B68-C4; | A23-B68-C5; | A23-B68-C6; | A23-B68-C7; | A23-B68-C8; | A23-B68-C9; |
| A24-B68-C1; | A24-B68-C2; | A24-B68-C3; | A24-B68-C4; | A24-B68-C5; | A24-B68-C6; |
| A24-B68-C7; | A24-B68-C8; | A24-B68-C9; | A25-B68-C1; | A25-B68-C2; | A25-B68-C3; |
| A25-B68-C4; | A25-B68-C5; | A25-B68-C6; | A25-B68-C7; | A25-B68-C8; | A25-B68-C9; |
| A26-B68-C1; | A26-B68-C2; | A26-B68-C3; | A26-B68-C4; | A26-B68-C5; | A26-B68-C6; |
| A26-B68-C7; | A26-B68-C8; | A26-B68-C9; | A27-B68-C1; | A27-B68-C2; | A27-B68-C3; |
| A27-B68-C4; | A27-B68-C5; | A27-B68-C6; | A27-B68-C7; | A27-B68-C8; | A27-B68-C9; |
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| A28-B68-C7; | A28-B68-C8; | A28-B68-C9; | A29-B68-C1; | A29-B68-C2; | A29-B68-C3; |
| A29-B68-C4; | A29-B68-C5; | A29-B68-C6; | A29-B68-C7; | A29-B68-C8; | A29-B68-C9; |
| A30-B68-C1; | A30-B68-C2; | A30-B68-C3; | A30-B68-C4; | A30-B68-C5; | A30-B68-C6; |
| A30-B68-C7; | A30-B68-C8; | A30-B68-C9; | A31-B68-C1; | A31-B68-C2; | A31-B68-C3; |
| A31-B68-C4; | A31-B68-C5; | A31-B68-C6; | A31-B68-C7; | A31-B68-C8; | A31-B68-C9; |
| A32-B68-C1; | A32-B68-C2; | A32-B68-C3; | A32-B68-C4; | A32-B68-C5; | A32-B68-C6; |
| A32-B68-C7; | A32-B68-C8; | A32-B68-C9; | A33-B68-C1; | A33-B68-C2; | A33-B68-C3; |
| A33-B68-C4; | A33-B68-C5; | A33-B68-C6; | A33-B68-C7; | A33-B68-C8; | A33-B68-C9; |
| A34-B68-C1; | A34-B68-C2; | A34-B68-C3; | A34-B68-C4; | A34-B68-C5; | A34-B68-C6; |
| A34-B68-C7; | A34-B68-C8; | A34-B68-C9; | A35-B68-C1; | A35-B68-C2; | A35-B68-C3; |
| A35-B68-C4; | A35-B68-C5; | A35-B68-C6; | A35-B68-C7; | A35-B68-C8; | A35-B68-C9; |
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| A36-B68-C7; | A36-B68-C8; | A36-B68-C9; | A37-B68-C1; | A37-B68-C2; | A37-B68-C3; |
| A37-B68-C4; | A37-B68-C5; | A37-B68-C6; | A37-B68-C7; | A37-B68-C8; | A37-B68-C9; |
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| A38-B68-C7; | A38-B68-C8; | A38-B68-C9; | A39-B68-C1; | A39-B68-C2; | A39-B68-C3; |
| A39-B68-C4; | A39-B68-C5; | A39-B68-C6; | A39-B68-C7; | A39-B68-C8; | A39-B68-C9; |
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| A40-B68-C1; | A40-B68-C2; | A40-B68-C3; | •           | A40-B68-C5; | A40-B68-C6; |
| A40-B68-C7; | A40-B68-C8; | A40-B68-C9; | A41-B68-C1; | A41-B68-C2; | A41-B68-C3; |
| A41-B68-C4; | A41-B68-C5; | A41-B68-C6; | A41-B68-C7; | A41-B68-C8; | A41-B68-C9; |
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| A42-B68-C7; | A42-B68-C8; | A42-B68-C9; | A43-B68-C1; | A43-B68-C2; | A43-B68-C3; |
| A43-B68-C4; | A43-B68-C5; | A43-B68-C6; | A43-B68-C7; | A43-B68-C8; | A43-B68-C9; |
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| A44-B68-C7; | A44-B68-C8; | A44-B68-C9; | A45-B68-C1; | A45-B68-C2; | A45-B68-C3; |

| A45-B68-C4; | A45-B68-C5; | A45-B68-C6;                | A45-B68-C7; | A45-B68-C8; | A45-B68-C9; |
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| A46-B68-C7; | A46-B68-C8; | A46-B68-C9;                | A47-B68-C1; | A47-B68-C2; | A47-B68-C3; |
| A47-B68-C4; | A47-B68-C5; | A47-B68-C6;                | A47-B68-C7; | A47-B68-C8; | A47-B68-C9; |
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| A48-B68-C7; | A48-B68-C8; | A48-B68-C9;                | A49-B68-C1; | A49-B68-C2; | A49-B68-C3; |
| A49-B68-C4; | A49-B68-C5; | A49-B68-C6;                | A49-B68-C7; | A49-B68-C8; | A49-B68-C9; |
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| A52-B68-C7; | A52-B68-C8; | A52-B68-C9;                | A53-B68-C1; | A53-B68-C2; | A53-B68-C3; |
| A53-B68-C4; | A53-B68-C5; |                            | A53-B68-C7; | A53-B68-C8; | A53-B68-C9; |
|             | A54-B68-C2; | A53-B68-C6;                | A54-B68-C4; | A54-B68-C5; | A54-B68-C6; |
| A54-B68-C1; |             | A54-B68-C3;<br>A54-B68-C9; |             |             |             |
| A54-B68-C7; | A54-B68-C8; |                            | A55-B68-C1; | A55-B68-C2; | A55-B68-C3; |
| A55-B68-C4; | A55-B68-C5; | A55-B68-C6;                | A55-B68-C7; | A55-B68-C8; | A55-B68-C9; |
| A56-B68-C1; | A56-B68-C2; | A56-B68-C3;                | A56-B68-C4; | A56-B68-C5; | A56-B68-C6; |
| A56-B68-C7; | A56-B68-C8; | A56-B68-C9;                | A57-B68-C1; | A57-B68-C2; | A57-B68-C3; |
| A57-B68-C4; | A57-B68-C5; | A57-B68-C6;                | A57-B68-C7; | A57-B68-C8; | A57-B68-C9; |
| A58-B68-C1; | A58-B68-C2; | A58-B68-C3;                | A58-B68-C4; | A58-B68-C5; | A58-B68-C6; |
| A58-B68-C7; | A58-B68-C8; | A58-B68-C9;                | A59-B68-C1; | A59-B68-C2; | A59-B68-C3; |
| A59-B68-C4; | A59-B68-C5; | A59-B68-C6;                | A59-B68-C7; | A59-B68-C8; | A59-B68-C9; |
| A60-B68-C1; | A60-B68-C2; | A60-B68-C3;                | A60-B68-C4; | A60-B68-C5; | A60-B68-C6; |
| A60-B68-C7; | A60-B68-C8; | A60-B68-C9;                | A61-B68-C1; | A61-B68-C2; | A61-B68-C3; |
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| A62-B68-C7; | A62-B68-C8; | A62-B68-C9;                | A63-B68-C1; | A63-B68-C2; | A63-B68-C3; |
| A63-B68-C4; | A63-B68-C5; | A63-B68-C6;                | A63-B68-C7; | A63-B68-C8; | A63-B68-C9; |
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| A64-B68-C7; | A64-B68-C8; | A64-B68-C9;                | A65-B68-C1; | A65-B68-C2; | A65-B68-C3; |
| A65-B68-C4; | A65-B68-C5; | A65-B68-C6;                | A65-B68-C7; | A65-B68-C8; | A65-B68-C9; |
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| A66-B68-C7; | A66-B68-C8; | A66-B68-C9;                | A67-B68-C1; | A67-B68-C2; | A67-B68-C3; |
| A67-B68-C4; | A67-B68-C5; | A67-B68-C6;                | A67-B68-C7; | A67-B68-C8; | A67-B68-C9; |
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| A68-B68-C7; | A68-B68-C8; | A68-B68-C9;                | A69-B68-C1; | A69-B68-C2; | A69-B68-C3; |
| A69-B68-C4; | A69-B68-C5; | A69-B68-C6;                | A69-B68-C7; | A69-B68-C8; | A69-B68-C9; |
| A70-B68-C1; | A70-B68-C2; | A70-B68-C3;                | A70-B68-C4; | A70-B68-C5; | A70-B68-C6; |
| A70-B68-C7; | A70-B68-C8; | A70-B68-C9;                | A71-B68-C1; | A71-B68-C2; | A71-B68-C3; |
| A71-B68-C4; | A71-B68-C5; | A71-B68-C6;                | A71-B68-C7; | A71-B68-C8; | A71-B68-C9; |
| A1-B69-C1;  | A1-B69-C2;  | A1-B69-C3;                 | A1-B69-C4;  | A1-B69-C5;  | A1-B69-C6;  |
| A1-B69-C7;  | A1-B69-C8;  | A1-B69-C9;                 | A2-B69-C1;  | A2-B69-C2;  | A2-B69-C3;  |
| A2-B69-C4;  | A2-B69-C5;  | A2-B69-C6;                 | A2-B69-C7;  | A2-B69-C8;  | A2-B69-C9;  |
| A3-B69-C1;  | A3-B69-C2;  | A3-B69-C3;                 | A3-B69-C4;  | A3-B69-C5;  | A3-B69-C6;  |
| A3-B69-C7;  | A3-B69-C8;  | A3-B69-C9;                 | A4-B69-C1;  | A4-B69-C2;  | A4-B69-C3;  |
| A4-B69-C4;  | A4-B69-C5;  | A4-B69-C6;                 | A4-B69-C7;  | A4-B69-C8;  | A4-B69-C9;  |
| A5-B69-C1;  | A5-B69-C2;  | A5-B69-C3;                 | A5-B69-C4;  | A5-B69-C5;  | A5-B69-C6;  |
| A5-B69-C7;  | A5-B69-C8;  | A5-B69-C9;                 | A6-B69-C1;  | A6-B69-C2;  | A6-B69-C3;  |
| A6-B69-C4;  | A6-B69-C5;  | A6-B69-C6;                 | A6-B69-C7;  | A6-B69-C8;  | A6-B69-C9;  |
| A7-B69-C1;  | A7-B69-C2;  | A7-B69-C3;                 | A7-B69-C4;  | A7-B69-C5;  | A7-B69-C6;  |
| A7-B69-C7;  | A7-B69-C8;  | A7-B69-C9;                 | A8-B69-C1;  | A8-B69-C2;  | A8-B69-C3;  |
| A8-B69-C4;  | A8-B69-C5;  | A8-B69-C6;                 | A8-B69-C7;  | A8-B69-C8;  | A8-B69-C9;  |
| A9-B69-C1;  | A9-B69-C2;  | A9-B69-C3;                 | A9-B69-C4;  | A9-B69-C5;  | A9-B69-C6;  |
| A9-B69-C7;  | A9-B69-C8;  | A9-B69-C9;                 | A10-B69-C1; | A10-B69-C2; | A10-B69-C3; |
| A10-B69-C4; | A10-B69-C5; | A10-B69-C6;                | A10-B69-C7; | A10-B69-C8; | A10-B69-C9; |

| A11-B69-C1; | A11-B69-C2  | A11-B69-C3; | A11-B69-C4; | A11-B69-C5; | A11-B69-C6; |
|-------------|-------------|-------------|-------------|-------------|-------------|
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| A11-B69-C7; | A11-B69-C8; | A11-B69-C9; | A12-B69-C1; | A12-B69-C2; | A12-B69-C3; |
| A12-B69-C4; | A12-B69-C5; | A12-B69-C6; | A12-B69-C7; | A12-B69-C8; | A12-B69-C9; |
| A13-B69-C1; | A13-B69-C2; | A13-B69-C3; | A13-B69-C4; | A13-B69-C5; | A13-B69-C6; |
| A13-B69-C7; | A13-B69-C8; | A13-B69-C9; | A14-B69-C1; | A14-B69-C2; | A14-B69-C3; |
| A14-B69-C4; | A14-B69-C5; | A14-B69-C6; | A14-B69-C7; | A14-B69-C8; | A14-B69-C9; |
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| A15-B69-C7; | A15-B69-C8; | A15-B69-C9; | A16-B69-C1; | A16-B69-C2; | A16-B69-C3; |
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| A45-B69-C7; | A45-B69-C8; | A45-B69-C9; | A46-B69-C1; | A46-B69-C2; | A46-B69-C3; |
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| A49-B69-C1;                | A49-B69-C2;                | A49-B69-C3;                | A49-B69-C4;                | A49-B69-C5;  | A49-B69-C6;  |
| A49-B69-C7;                | A49-B69-C8;                | A49-B69-C9;                | A50-B69-C1;                | A50-B69-C2;  | A50-B69-C3;  |
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| A67-B69-C7;                | A67-B69-C8;                | A67-B69-C9;                | A68-B69-C1;                | A68-B69-C2;  | A68-B69-C3;  |
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| A69-B69-C7;                | A69-B69-C8;                | A69-B69-C9;                | A70-B69-C1;                | A70-B69-C2;  | A70-B69-C3;  |
| A70-B69-C4;                | A70-B69-C5;                | A70-B69-C6;                | A70-B69-C7;                | A70-B69-C8;  | A70-B69-C9;  |
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| A71-B69-C7;                | A71-B69-C8;                | A71-B69-C9;                | A1-B70-C1;                 | A1-B70-C2;   | A1-B70-C3;   |
| A1-B70-C4;                 | A1-B70-C5;                 | A1-B70-C6;                 | A1-B70-C7;                 | A1-B70-C8;   | A1-B70-C9;   |
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| A2-B70-C7;                 | A2-B70-C8;                 | A2-B70-C9;                 | A3-B70-C1;                 | A3-B70-C2;   | A3-B70-C3;   |
| A3-B70-C4;                 | A3-B70-C5;                 | A3-B70-C6;                 | A3-B70-C7;                 | A3-B70-C8;   | A3-B70-C9;   |
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| A4-B70-C7;                 | A4-B70-C8;                 | A4-B70-C9;                 | A5-B70-C1;                 | A5-B70-C2;   | A5-B70-C3;   |
| A5-B70-C4;                 | A5-B70-C5;                 | A5-B70-C6;                 | A5-B70-C7;                 | A5-B70-C8;   | A5-B70-C9;   |
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| A6-B70-C7;                 | A6-B70-C8;                 | A6-B70-C9;                 | A7-B70-C1;                 | A7-B70-C2;   | A7-B70-C3;   |
| A7-B70-C4;                 | A7-B70-C5;                 | A7-B70-C6;                 | A7-B70-C7;                 | A7-B70-C8;   | A7-B70-C9;   |
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| A8-B70-C7;                 | A8-B70-C8;                 | A8-B70-C9;                 | A9-B70-C1;                 | A9-B70-C2;   | A9-B70-C3;   |
| A9-B70-C4;                 | A9-B70-C5;                 | A9-B70-C6;                 | A9-B70-C7;                 | A9-B70-C8;   | A9-B70-C9;   |
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| A10-B70-C7;                | A10-B70-C2;                | A10-B70-C9;                | A11-B70-C1;                | A11-B70-C2;  | A11-B70-C3;  |
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| A12-B70-C1;<br>A12-B70-C7; | A12-B70-C2;<br>A12-B70-C8; | A12-B70-C9;                | A12-B70-C4;<br>A13-B70-C1; | A13-B70-C3;  | A13-B70-C3;  |
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| A15-B70-C4; | A15-B70-C5; | A14-B70-C9;<br>A15-B70-C6; | A15-B70-C1; | A15-B70-C2; | A15-B70-C9;                |
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| A16-B70-C1; |             |                            |             | A10-B70-C3; | A17-B70-C3;                |
| A17 B70 C4  | A16-B70-C8; | A16-B70-C9;                | A17-B70-C1; |             | A17-B70-C3;<br>A17-B70-C9; |
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| A18-B70-C7; | A18-B70-C8; | A18-B70-C9;                | A19-B70-C1; | A19-B70-C2; | A19-B70-C3;                |
| A19-B70-C4; | A19-B70-C5; | A19-B70-C6;                | A19-B70-C7; | A19-B70-C8; | A19-B70-C9;                |
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| A20-B70-C7; | A20-B70-C8; | A20-B70-C9;                | A21-B70-C1; | A21-B70-C2; | A21-B70-C3;                |
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| A24-B70-C7; | A24-B70-C8; | A24-B70-C9;                | A25-B70-C1; | A25-B70-C2; | A25-B70-C3;                |
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| A30-B70-C7; | A30-B70-C8; | A30-B70-C9;                | A31-B70-C1; | A31-B70-C2; | A31-B70-C3;                |
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| A48-B70-C7; | A48-B70-C8; | A48-B70-C9;                | A49-B70-C1; | A49-B70-C2; | A49-B70-C3;                |
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| A50-B70-C1; | A50-B70-C2;                | A50-B70-C3;                | A50-B70-C4; | A50-B70-C5;                | A50-B70-C6; |
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| A52-B70-C7; | A52-B70-C8;                |                            |             | A53-B70-C2;<br>A53-B70-C8; |             |
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| A66-B70-C7; | A66-B70-C8;                | A66-B70-C9;                | A67-B70-C1; | A67-B70-C2;                | A67-B70-C3; |
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| A70-B70-C7; | A70-B70-C8;                | A70-B70-C9;                | A71-B70-C1; | A71-B70-C2;                | A71-B70-C3; |
| A71-B70-C4; | A71-B70-C5;                | A71-B70-C6;                | A71-B70-C7; | A71-B70-C8;                | A71-B70-C9; |
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| A1-B71-C7;  | A1-B71-C8;                 | A1-B71-C9;                 | A2-B71-C1;  | A2-B71-C2;                 | A2-B71-C3;  |
| A2-B71-C4;  | A2-B71-C5;                 | A2-B71-C6;                 | A2-B71-C7;  | A2-B71-C8;                 | A2-B71-C9;  |
| A3-B71-C1;  | A3-B71-C2;                 | A3-B71-C3;                 | A3-B71-C4;  | A3-B71-C5;                 | A3-B71-C6;  |
| A3-B71-C7;  | A3-B71-C8;                 | A3-B71-C9;                 | A4-B71-C1;  | A4-B71-C2;                 | A4-B71-C3;  |
| A4-B71-C4;  | A4-B71-C5;                 | A4-B71-C6;                 | A4-B71-C7;  | A4-B71-C8;                 | A4-B71-C9;  |
| A5-B71-C1;  | A5-B71-C2;                 | A5-B71-C3;                 | A5-B71-C4;  | A5-B71-C5;                 | A5-B71-C6;  |
| A5-B71-C7;  | A5-B71-C8;                 | A5-B71-C9;                 | A6-B71-C1;  | A6-B71-C2;                 | A6-B71-C3;  |
| A6-B71-C4;  | A6-B71-C5;                 | A6-B71-C6;                 | A6-B71-C7;  | A6-B71-C8;                 | A6-B71-C9;  |
| A7-B71-C1;  | A7-B71-C2;                 | A7-B71-C3;                 | A7-B71-C4;  | A7-B71-C5;                 | A7-B71-C6;  |
| A7-B71-C7;  | A7-B71-C8;                 | A7-B71-C9;                 | A8-B71-C1;  | A8-B71-C2;                 | A8-B71-C3;  |
| A8-B71-C4;  | A8-B71-C5;                 | A8-B71-C6;                 | A8-B71-C7;  | A8-B71-C8;                 | A8-B71-C9;  |
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| A9-B71-C7;  | A9-B71-C8;                 | A9-B71-C9;                 | A10-B71-C1; | A10-B71-C2;                | A10-B71-C3; |
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| A11-B71-C7; | A11-B71-C8;                | A11-B71-C9;                | A12-B71-C1; | A12-B71-C2;                | A12-B71-C3; |
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| A13-B71-C7; | A13-B71-C8;                | A13-B71-C9;                | A14-B71-C1; | A14-B71-C2;                | A14-B71-C3; |
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| A15-B71-C7; | A15-B71-C8;                | A15-B71-C9; | A16-B71-C1; | A16-B71-C2; | A16-B71-C3; |
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| A17-B71-C7; | A17-B71-C8;                | A17-B71-C9; | A18-B71-C1; | A18-B71-C2; | A18-B71-C3; |
| A18-B71-C4; | A18-B71-C5;                | A18-B71-C6; | A18-B71-C7; | A18-B71-C8; | A18-B71-C9; |
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| A19-B71-C7; | A19-B71-C8;                | A19-B71-C9; | A20-B71-C1; | A20-B71-C2; | A20-B71-C3; |
| A20-B71-C4; | A20-B71-C5;                | A20-B71-C6; | A20-B71-C7; | A20-B71-C8; | A20-B71-C9; |
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| A21-B71-C7; | A21-B71-C8;                | A21-B71-C9; | A22-B71-C1; | A22-B71-C2; | A22-B71-C3; |
| A22-B71-C4; | A22-B71-C5;                | A22-B71-C6; | A22-B71-C7; | A22-B71-C8; | A22-B71-C9; |
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| A23-B71-C7; | A23-B71-C8;                | A23-B71-C9; | A24-B71-C1; | A24-B71-C2; | A24-B71-C3; |
| A24-B71-C4; | A24-B71-C5;                | A24-B71-C6; | A24-B71-C7; | A24-B71-C2; | A24-B71-C9; |
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| A25-B71-C1; | A25-B71-C2;<br>A25-B71-C8; |             |             |             | A25-B71-C6; |
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| A4-B72-C7;  | A4-B72-C8;  | A4-B72-C9;  | A5-B72-C1;  | A5-B72-C2;  | A5-B72-C3;  |
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| A6-B72-C7;  | A6-B72-C8;  | A6-B72-C9;  | A7-B72-C1;  | A7-B72-C2;  | A7-B72-C3;  |
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| A13-B72-C4; | A13-B72-C5; | A13-B72-C6; | A13-B72-C7; | A13-B72-C8; | A13-B72-C9; |
| A14-B72-C1; | A14-B72-C2; | A14-B72-C3; | A14-B72-C4; | A14-B72-C5; | A14-B72-C6; |
| A14-B72-C7; | A14-B72-C8; | A14-B72-C9; | A15-B72-C1; | A15-B72-C2; | A15-B72-C3; |
| A15-B72-C4; | A15-B72-C5; | A15-B72-C6; | A15-B72-C7; | A15-B72-C8; | A15-B72-C9; |
| A16-B72-C1; | A16-B72-C2; | A16-B72-C3; | A16-B72-C4; | A16-B72-C5; | A16-B72-C6; |
| A16-B72-C7; | A16-B72-C8; | A16-B72-C9; | A17-B72-C1; | A17-B72-C2; | A17-B72-C3; |
| A17-B72-C4; | A17-B72-C5; | A17-B72-C6; | A17-B72-C7; | A17-B72-C8; | A17-B72-C9; |
| ,           | . ,         | ,           | 7           | ,           | . ,         |

| A 10 D70 CL | 4 10 DZO CO | 4 10 DZO CO | 4 10 DZ0 C4 | 4.10 DGO GC                | 4.10 DG0 G6                |
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| A18-B72-C1; | A18-B72-C2; | A18-B72-C3; | A18-B72-C4; | A18-B72-C5;                | A18-B72-C6;                |
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| A21-B72-C4; | A21-B72-C5; | A21-B72-C6; | A21-B72-C7; | A21-B72-C8;                | A21-B72-C9;                |
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| A22-B72-C7; | A22-B72-C8; | A22-B72-C9; | A23-B72-C1; | A23-B72-C2;                | A23-B72-C3;                |
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| A32-B72-C7; | A32-B72-C8; | A32-B72-C9; | A33-B72-C1; | A33-B72-C2;                | A33-B72-C3;                |
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| A3-B73-C7;  | A3-B73-C8;  | A3-B73-C9;  | A4-B73-C1;  | A4-B73-C2;  | A4-B73-C3;  |
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| A5-B73-C7;  | A5-B73-C8;  | A5-B73-C9;  | A6-B73-C1;  | A6-B73-C2;  | A6-B73-C3;  |
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| A7-B73-C7;  | A7-B73-C8;  | A7-B73-C9;  | A8-B73-C1;  | A8-B73-C2;  | A8-B73-C3;  |
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| A25-B73-C7;                | A25-B73-C8;                | A25-B73-C9;                | A26-B73-C1; | A26-B73-C2; | A26-B73-C3; |
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| A62-B74-C7;  | A62-B74-C8;                | A62-B74-C9;                | A63-B74-C1;                | A63-B74-C2;                | A63-B74-C3;  |
| A63-B74-C4;  | A63-B74-C5;                | A63-B74-C6;                | A63-B74-C7;                | A63-B74-C8;                | A63-B74-C9;  |
| A64-B74-C1;  | A64-B74-C2;                | A64-B74-C3;                | A64-B74-C4;                | A64-B74-C5;                | A64-B74-C6;  |
| A64-B74-C7;  | A64-B74-C8;                | A64-B74-C9;                | A65-B74-C1;                | A65-B74-C2;                | A65-B74-C3;  |
| A65-B74-C4;  | A65-B74-C5;                | A65-B74-C6;                | A65-B74-C7;                | A65-B74-C8;                | A65-B74-C9;  |
| A66-B74-C1;  | A66-B74-C2;                | A66-B74-C3;                | A66-B74-C4;                | A66-B74-C5;                | A66-B74-C6;  |
| A66-B74-C7;  | A66-B74-C8;                | A66-B74-C9;                | A67-B74-C1;                | A67-B74-C2;                | A67-B74-C3;  |
| A67-B74-C4;  | A67-B74-C5;                | A67-B74-C6;                | A67-B74-C7;                | A67-B74-C8;                | A67-B74-C9;  |
| A68-B74-C1;  | A68-B74-C2;                | A68-B74-C3;                | A68-B74-C4;                | A68-B74-C5;                | A68-B74-C6;  |
| A68-B74-C7;  | A68-B74-C8;                | A68-B74-C9;                | A69-B74-C1;                | A69-B74-C2;                | A69-B74-C3;  |
| A69-B74-C4;  | A69-B74-C5;                | A69-B74-C6;                | A69-B74-C7;                | A69-B74-C8;                | A69-B74-C9;  |
| A70-B74-C1;  | A70-B74-C2;                | A70-B74-C3;                | A70-B74-C4;                | A70-B74-C5;                | A70-B74-C6;  |
| A70-B74-C7;  | A70-B74-C8;                | A70-B74-C9;                | A71-B74-C1;                | A71-B74-C2;                | A71-B74-C3;  |
| A71-B74-C4;  | A71-B74-C5;                | A71-B74-C6;                | A71-B74-C7;                | A71-B74-C8;                | A71-B74-C9;  |
| A1-B75-C1;   | A1-B75-C2;                 | A1-B75-C3;                 | A1-B75-C4;                 | A1-B75-C5;                 | A1-B75-C6;   |
| A1-B75-C7;   | A1-B75-C8;                 | A1-B75-C9;                 | A2-B75-C1;                 | A2-B75-C2;                 | A2-B75-C3;   |
| A2-B75-C4;   | A2-B75-C5;                 | A2-B75-C6;                 | A2-B75-C7;                 | A2-B75-C8;                 | A2-B75-C9;   |
| A3-B75-C1;   | A3-B75-C2;                 | A3-B75-C3;                 | A3-B75-C4;                 | A3-B75-C5;                 | A3-B75-C6;   |
| A3-B75-C7;   | A3-B75-C8;                 | A3-B75-C9;                 | A4-B75-C1;                 | A4-B75-C2;                 | A4-B75-C3;   |
| A4-B75-C4;   | A4-B75-C5;                 | A4-B75-C6;                 | A4-B75-C7;                 | A4-B75-C8;                 | A4-B75-C9;   |
| A5-B75-C1;   | A5-B75-C2;                 | A5-B75-C3;                 | A5-B75-C4;                 | A5-B75-C5;                 | A5-B75-C6;   |
| A5-B75-C7;   | A5-B75-C8;                 | A5-B75-C9;                 | A6-B75-C1;                 | A6-B75-C2;                 | A6-B75-C3;   |
| A6-B75-C4;   | A6-B75-C5;                 | A6-B75-C6;                 | A6-B75-C7;                 | A6-B75-C8;                 | A6-B75-C9;   |
| A7-B75-C1;   | A7-B75-C2;                 | A7-B75-C3;                 | A7-B75-C4;                 | A7-B75-C5;                 | A7-B75-C6;   |
| A7-B75-C7;   | A7-B75-C8;                 | A7-B75-C9;                 | A8-B75-C1;                 | A8-B75-C2;                 | A8-B75-C3;   |
| A8-B75-C4;   | A8-B75-C5;                 | A8-B75-C6;                 | A8-B75-C7;                 | A8-B75-C8;                 | A8-B75-C9;   |
| A9-B75-C1;   | A9-B75-C2;                 | A9-B75-C3;                 | A9-B75-C4;                 | A9-B75-C5;                 | A9-B75-C6;   |
| A9-B75-C7;   | A9-B75-C8;                 | A9-B75-C9;                 | A10-B75-C1;                | A10-B75-C2;                | A10-B75-C3;  |
| A10-B75-C4;  | A10-B75-C5;                | A10-B75-C6;                | A10-B75-C7;                | A10-B75-C8;                | A10-B75-C9;  |
| A11-B75-C1;  | A11-B75-C2;                | A11-B75-C3;                | A11-B75-C4;                | A11-B75-C5;                | A11-B75-C6;  |
| A11-B75-C7;  | A11-B75-C8;                | A11-B75-C9;                | A12-B75-C1;                | A12-B75-C2;                | A12-B75-C3;  |
| A12-B75-C4;  | A12-B75-C5;                | A12-B75-C6;                | A12-B75-C7;                | A12-B75-C8;                | A12-B75-C9;  |
| A13-B75-C1;  | A13-B75-C2;                | A13-B75-C3;                | A13-B75-C4;                | A13-B75-C5;                | A13-B75-C6;  |
| A13-B75-C7;  | A13-B75-C8;                | A13-B75-C9;                | A14-B75-C1;                | A14-B75-C2;                | A14-B75-C3;  |
| A14-B75-C4;  | A14-B75-C5;                | A14-B75-C6;                | A14-B75-C7;                | A14-B75-C8;                | A14-B75-C9;  |
| A15-B75-C1;  | A15-B75-C2;                | A15-B75-C3;                | A15-B75-C4;                | A15-B75-C5;                | A15-B75-C6;  |
| A15-B75-C7;  | A15-B75-C8;                | A15-B75-C9;                | A16-B75-C1;                | A16-B75-C2;                | A16-B75-C3;  |
| A16-B75-C4;  | A16-B75-C5;                | A16-B75-C6;                | A16-B75-C7;                | A16-B75-C8;                | A16-B75-C9;  |
| A17-B75-C1;  | A17-B75-C2;                | A17-B75-C3;                | A17-B75-C4;                | A17-B75-C5;                | A17-B75-C6;  |
| A17-B75-C7;  | A17-B75-C8;                | A17-B75-C9;                | A18-B75-C1;                | A18-B75-C2;                | A18-B75-C3;  |
| A18-B75-C4;  | A18-B75-C5;                | A18-B75-C6;                | A18-B75-C7;                | A18-B75-C8;                | A18-B75-C9;  |
| A19-B75-C1;  | A19-B75-C2;                | A19-B75-C3;                | A19-B75-C4;                | A19-B75-C5;                | A19-B75-C6;  |
| A19-B75-C7;  | A19-B75-C8;                | A19-B75-C9;                | A20-B75-C1;                | A20-B75-C2;                | A20-B75-C3;  |
| A20-B75-C4;  | A20-B75-C5;                | A20-B75-C6;                | A20-B75-C7;                | A20-B75-C8;                | A20-B75-C9;  |
| A21-B75-C1;  | A21-B75-C2;                | A21-B75-C3;                | A21-B75-C4;                | A21-B75-C5;                | A21-B75-C6;  |
| A21-B75-C1;  | A21-B75-C2;                | A21-B75-C9;                | A22-B75-C1;                | A22-B75-C2;                | A22-B75-C3;  |
| A22-B75-C4;  | A22-B75-C5;                | A22-B75-C6;                | A22-B75-C1;                | A22-B75-C2;                | A22-B75-C9;  |
| A23-B75-C4;  | A23-B75-C3;                | A22-B75-C0;<br>A23-B75-C3; | A23-B75-C4;                | A23-B75-C5;                | A23-B75-C6;  |
| A23-B75-C1;  | A23-B75-C2;<br>A23-B75-C8; | A23-B75-C9;                | A24-B75-C1;                | A24-B75-C2;                | A24-B75-C3;  |
| A24-B75-C4;  | A24-B75-C5;                | A24-B75-C6;                | A24-B75-C1;<br>A24-B75-C7; | A24-B75-C2;<br>A24-B75-C8; | A24-B75-C9;  |
| 1127-115-04, | 1147-D13-C3,               | 1127-D13-CU,               | 1127-D13-C1,               | 1124-D15-CO,               | 1147-D1J-C3, |

| A25-B75-C1; | A25-B75-C2; | A25-B75-C3; | A25-B75-C4; | A25-B75-C5; | A25-B75-C6; |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A25-B75-C7; | A25-B75-C8; | A25-B75-C9; | A26-B75-C1; | A26-B75-C2; | A26-B75-C3; |
| A26-B75-C4; | A26-B75-C5; | A26-B75-C6; | A26-B75-C7; | A26-B75-C8; | A26-B75-C9; |
| A27-B75-C1; | A27-B75-C2; | A27-B75-C3; | A27-B75-C4; | A27-B75-C5; | A27-B75-C6; |
| A27-B75-C7; | A27-B75-C8; | A27-B75-C9; | A28-B75-C1; | A28-B75-C2; | A28-B75-C3; |
| A28-B75-C4; | A28-B75-C5; | A28-B75-C6; | A28-B75-C7; | A28-B75-C8; | A28-B75-C9; |
| A29-B75-C1; | A29-B75-C2; | A29-B75-C3; | A29-B75-C4; | A29-B75-C5; | A29-B75-C6; |
| A29-B75-C7; | A29-B75-C8; | A29-B75-C9; | A30-B75-C1; | A30-B75-C2; | A30-B75-C3; |
| A30-B75-C4; | A30-B75-C5; | A30-B75-C6; | A30-B75-C7; | A30-B75-C8; | A30-B75-C9; |
| A31-B75-C1; | A31-B75-C2; | A31-B75-C3; | A31-B75-C4; | A31-B75-C5; | A31-B75-C6; |
| A31-B75-C7; | A31-B75-C8; | A31-B75-C9; | A32-B75-C1; | A32-B75-C2; | A32-B75-C3; |
| A32-B75-C4; | A32-B75-C5; | A32-B75-C6; | A32-B75-C7; | A32-B75-C8; | A32-B75-C9; |
| A33-B75-C1; | A33-B75-C2; | A33-B75-C3; | A33-B75-C4; | A33-B75-C5; | A33-B75-C6; |
| A33-B75-C7; | A33-B75-C8; | A33-B75-C9; | A34-B75-C1; | A34-B75-C2; | A34-B75-C3; |
| A34-B75-C4; | A34-B75-C5; | A34-B75-C6; | A34-B75-C7; | A34-B75-C8; | A34-B75-C9; |
| A35-B75-C1; | A35-B75-C2; | A35-B75-C3; | A35-B75-C4; | A35-B75-C5; |             |
| A35-B75-C1; | A35-B75-C2; |             |             |             | A35-B75-C6; |
|             |             | A35-B75-C9; | A36-B75-C1; | A36-B75-C2; | A36-B75-C3; |
| A36-B75-C4; | A36-B75-C5; | A36-B75-C6; | A36-B75-C7; | A36-B75-C8; | A36-B75-C9; |
| A37-B75-C1; | A37-B75-C2; | A37-B75-C3; | A37-B75-C4; | A37-B75-C5; | A37-B75-C6; |
| A37-B75-C7; | A37-B75-C8; | A37-B75-C9; | A38-B75-C1; | A38-B75-C2; | A38-B75-C3; |
| A38-B75-C4; | A38-B75-C5; | A38-B75-C6; | A38-B75-C7; | A38-B75-C8; | A38-B75-C9; |
| A39-B75-C1; | A39-B75-C2; | A39-B75-C3; | A39-B75-C4; | A39-B75-C5; | A39-B75-C6; |
| A39-B75-C7; | A39-B75-C8; | A39-B75-C9; | A40-B75-C1; | A40-B75-C2; | A40-B75-C3; |
| A40-B75-C4; | A40-B75-C5; | A40-B75-C6; | A40-B75-C7; | A40-B75-C8; | A40-B75-C9; |
| A41-B75-C1; | A41-B75-C2; | A41-B75-C3; | A41-B75-C4; | A41-B75-C5; | A41-B75-C6; |
| A41-B75-C7; | A41-B75-C8; | A41-B75-C9; | A42-B75-C1; | A42-B75-C2; | A42-B75-C3; |
| A42-B75-C4; | A42-B75-C5; | A42-B75-C6; | A42-B75-C7; | A42-B75-C8; | A42-B75-C9; |
| A43-B75-C1; | A43-B75-C2; | A43-B75-C3; | A43-B75-C4; | A43-B75-C5; | A43-B75-C6; |
| A43-B75-C7; | A43-B75-C8; | A43-B75-C9; | A44-B75-C1; | A44-B75-C2; | A44-B75-C3; |
| A44-B75-C4; | A44-B75-C5; | A44-B75-C6; | A44-B75-C7; | A44-B75-C8; | A44-B75-C9; |
| A45-B75-C1; | A45-B75-C2; | A45-B75-C3; | A45-B75-C4; | A45-B75-C5; | A45-B75-C6; |
| A45-B75-C7; | A45-B75-C8; | A45-B75-C9; | A46-B75-C1; | A46-B75-C2; | A46-B75-C3; |
| A46-B75-C4; | A46-B75-C5; | A46-B75-C6; | A46-B75-C7; | A46-B75-C8; | A46-B75-C9; |
| A47-B75-C1; | A47-B75-C2; | A47-B75-C3; | A47-B75-C4; | A47-B75-C5; | A47-B75-C6; |
| A47-B75-C7; | A47-B75-C8; | A47-B75-C9; | A48-B75-C1; | A48-B75-C2; | A48-B75-C3; |
| A48-B75-C4; | A48-B75-C5; | A48-B75-C6; | A48-B75-C7; | A48-B75-C8; | A48-B75-C9; |
| A49-B75-C1; | A49-B75-C2; | A49-B75-C3; | A49-B75-C4; | A49-B75-C5; | A49-B75-C6; |
| A49-B75-C7; | A49-B75-C8; | A49-B75-C9; | A50-B75-C1; | A50-B75-C2; | A50-B75-C3; |
| A50-B75-C4; | A50-B75-C5; | A50-B75-C6; | A50-B75-C7; | A50-B75-C8; | A50-B75-C9; |
| A51-B75-C1; | A51-B75-C2; | A51-B75-C3; | A51-B75-C4; | A51-B75-C5; | A51-B75-C6; |
| A51-B75-C7; | A51-B75-C8; | A51-B75-C9; | A52-B75-C1; | A52-B75-C2; | A52-B75-C3; |
| A52-B75-C4; | A52-B75-C5; | A52-B75-C6; | A52-B75-C7; | A52-B75-C8; | A52-B75-C9; |
| A53-B75-C1; | A53-B75-C2; | A53-B75-C3; | A53-B75-C4; | A53-B75-C5; | A53-B75-C6; |
| A53-B75-C7; | A53-B75-C8; | A53-B75-C9; | A54-B75-C1; | A54-B75-C2; | A54-B75-C3; |
| A54-B75-C4; | A54-B75-C5; | A54-B75-C6; | A54-B75-C7; | A54-B75-C8; | A54-B75-C9; |
| A55-B75-C1; | A55-B75-C2; | A55-B75-C3; | A55-B75-C4; | A55-B75-C5; | A55-B75-C6; |
| A55-B75-C7; | A55-B75-C2; | A55-B75-C9; | A56-B75-C1; | A56-B75-C2; |             |
| A56-B75-C4; | A56-B75-C5; | ·           | A56-B75-C7; | •           | A56-B75-C3; |
|             |             | A56-B75-C6; | •           | A56-B75-C8; | A56-B75-C9; |
| A57-B75-C1; | A57-B75-C2; | A57-B75-C3; | A57-B75-C4; | A57-B75-C5; | A57-B75-C6; |
| A57-B75-C7; | A57-B75-C8; | A57-B75-C9; | A58-B75-C1; | A58-B75-C2; | A58-B75-C3; |
| A58-B75-C4; | A58-B75-C5; | A58-B75-C6; | A58-B75-C7; | A58-B75-C8; | A58-B75-C9; |
| A59-B75-C1; | A59-B75-C2; | A59-B75-C3; | A59-B75-C4; | A59-B75-C5; | A59-B75-C6; |
| A59-B75-C7; | A59-B75-C8; | A59-B75-C9; | A60-B75-C1; | A60-B75-C2; | A60-B75-C3; |
| A60-B75-C4; | A60-B75-C5; | A60-B75-C6; | A60-B75-C7; | A60-B75-C8; | A60-B75-C9; |
| A61-B75-C1; | A61-B75-C2; | A61-B75-C3; | A61-B75-C4; | A61-B75-C5; | A61-B75-C6; |

| A61-B75-C7; | A61-B75-C8; | A61-B75-C9; | A62-B75-C1; | A62-B75-C2; | A62-B75-C3; |
|-------------|-------------|-------------|-------------|-------------|-------------|
| A62-B75-C4; | A62-B75-C5; | A62-B75-C6; | A62-B75-C7; | A62-B75-C8; | A62-B75-C9; |
| A63-B75-C1; | A63-B75-C2; | A63-B75-C3; | A63-B75-C4; | A63-B75-C5; | A63-B75-C6; |
| A63-B75-C7; | A63-B75-C8; | A63-B75-C9; | A64-B75-C1; | A64-B75-C2; | A64-B75-C3; |
| A64-B75-C4; | A64-B75-C5; | A64-B75-C6; | A64-B75-C7; | A64-B75-C8; | A64-B75-C9; |
| A65-B75-C1; | A65-B75-C2; | A65-B75-C3; | A65-B75-C4; | A65-B75-C5; | A65-B75-C6; |
| A65-B75-C7; | A65-B75-C8; | A65-B75-C9; | A66-B75-C1; | A66-B75-C2; | A66-B75-C3; |
| A66-B75-C4; | A66-B75-C5; | A66-B75-C6; | A66-B75-C7; | A66-B75-C8; | A66-B75-C9; |
| A67-B75-C1; | A67-B75-C2; | A67-B75-C3; | A67-B75-C4; | A67-B75-C5; | A67-B75-C6; |
| A67-B75-C7; | A67-B75-C8; | A67-B75-C9; | A68-B75-C1; | A68-B75-C2; | A68-B75-C3; |
| A68-B75-C4; | A68-B75-C5; | A68-B75-C6; | A68-B75-C7; | A68-B75-C8; | A68-B75-C9; |
| A69-B75-C1; | A69-B75-C2; | A69-B75-C3; | A69-B75-C4; | A69-B75-C5; | A69-B75-C6; |
| A69-B75-C7; | A69-B75-C8; | A69-B75-C9; | A70-B75-C1; | A70-B75-C2; | A70-B75-C3; |
| A70-B75-C4; | A70-B75-C5; | A70-B75-C6; | A70-B75-C7; | A70-B75-C8; | A70-B75-C9; |
| A71-B75-C1; | A71-B75-C2; | A71-B75-C3; | A71-B75-C4; | A71-B75-C5; | A71-B75-C6; |
| A71-B75-C7: | A71-B75-C8: | A71-B75-C9: |             |             |             |

Thus, for example, in the above list the compound denoted as A20-B2-C1 is the product of the combination of group A20 in Table 1 and B2 in Table 2 and C1 in Table 3, namely *N*-(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-4-hydroxy-benzamide:

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Further preferred are compounds of Formula I selected from a group consisting of:

 $N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl\}-nicotinamide (compound denoted as A24-B2-C1);$ 

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-isonicotinamide (compound denoted as A25-B2-C1);

Pyridine-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoromethoxy)-phenylmethanesulfonyl]-ethyl}-amide (compound denoted as A62-B2-C1);

Pyrazine-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoromethoxy)-phenylmethanesulfonyl]-ethyl}-amide (compound denoted as A63-B2-C1);

*N*-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-6-hydroxy-nicotinamide (compound denoted as A65-B2-C1);

2-Amino-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-nicotinamide, (compound denoted as A67-B2-C1);

6-Amino-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-nicotinamide, (compound denoted as A66-B2-C1);

3-Hydroxy-pyridine-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-

(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (compound denoted as A68-B2-C1);

Morpholine-4-carboxylic acid-{(R)-1-(4-cyano-tetrahydro-pyran-4-ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (compound denoted as A2-B2--C4);

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Morpholine-4-carboxylic acid-{(R)-1-(4-cyano-1-methyl-piperidin-4-ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (compound denoted as A2-B2-C5);

- (R)-N -Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(3, 3-dimethyl-ureido)-propionamide, (compound denoted as A56-B2-C1);
- {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid allyl ester, (compound denoted as A53-B2-C1);
- {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid isopropyl ester, (compound denoted as A54-B2-C1);
- {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid isobutyl ester, (compound denoted as A51-B2-C1);
  - N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3,4-difluoro-benzamide, (compound denoted as A46-B2-C1);
- 20 N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3-methyl-benzamide, (compound denoted as A48-B2-C1);

Thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A28-B2-C1);

- 4-Bromo-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-benzamide, (compound denoted as A43-B2-C1);
- N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-4-methoxy-benzamide, (compound denoted as A44-B2-C1);
  - *N*-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-

phenylmethanesulfonyl]-ethyl}-4-trifluoromethoxy-benzamide, (compound denoted as A45-B2-C1);

Naphthalene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A7-B2-C1);

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- (E)-N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-3-phenyl-acrylamide, (compound denoted as A59-B2-C1);
- 5-Methyl-thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-10 (1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A31-B2-C1);

Biphenyl-4-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A11-B2-C1);

- 15 1H-Indole-5-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A60-B2-C1);
  - Benzo[1,3]dioxole-5-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A8-B2-C1);

Benzo[b]thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A35-B2-C1);

- N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-3-phenoxy-benzamide, (compound denoted as A69-B2-C1);
- Quinoline-3-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A13-B2-C1);
- $N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl\}-3-(1-phenyl-methanoyl)-benzamide, (compound$

denoted as A70-B2-C1); 4-Chloro-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)phenylmethanesulfonyl]-ethyl}-benzamide, (compound denoted as A42-B2-C1);  $N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-$ 5 phenylmethanesulfonyl]-ethyl}-3-fluoro-4-methoxy-benzamide, (compound denoted as A41-B2-C1); 3-Bromo-thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A33-B2-C1); 3-Chloro-benzo[b]thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-10 carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A36-B2-C1); 3-Chloro-thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as 15 A32-B2-C1); N-{(R)-(Cyanomethyl-carbamoyl)-[2-(1,1-difluoro-methoxy)phenylmethanesulfonyl]-ethyl}-trifluoromethyl-benzamide, (compound denoted as A40-B2-C1); (R)-N-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-20 (naphthalene-2-sulfonylamino)-propionamide, (compound denoted as A38-B2-C1); Cyclopentanecarboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide, (compound denoted as A34-B2-C1); N-[1R-cyanomethylcarbamoyl-2-(3-25 trifluoromethoxybenzylsulfonyl)ethyl]benzamide, (compound denoted as A1-B24-C1); N-[1R-cyanomethylcarbamoyl-2-(2difluoromethoxybenzylsulfonyl)ethyl]benzamide, (compound denoted as A1-B2-C1); N-[1R-cyanomethylcarbamoyl-2-(2trifluoromethoxybenzylsulfonyl)ethyl]benzamide, (compound denoted as A1-B42-C1); 30 N-(1R-cyanomethylcarbamoyl-2-(3-

difluoromethoxybenzylsulfonyl)ethyl]benzamide, (compound denoted as A1-B24-C1);

N-[1R-cyanomethylcarbamoyl-2-(2-

difluoromethoxybenzylsulfonyl)ethyl]morpholine-4-carboxamide, (compound denoted as A2-B2-C1);

N-[1R-(1-cyanocyclopropylcarbamoyl)-2-(2-

difluoromethoxybenzylsulfonyl)ethyl]-morpholine-4-carboxamide, (compound denoted as A2-B2-C3); and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates (e.g. hydrates) of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

Particularly preferred compounds are:

*N*-[1R-cyanomethylcarbamoyl-2-(2-difluoromethoxybenzylsulfonyl)-ethyl]benzamide;

*N*-[1R-cyanomethylcarbamoyl-2-(2-trifluoromethoxybenzylsulfonyl)-ethyl]benzamide;

N-[1R-cyanomethylcarbamoyl-2-(2-difluoromethoxybenzylsulfonyl)-ethyl]morpholine-4-carboxamide;

*N*-[1R-(1-cyanocyclopropylcarbamoyl)-2-(2-difluoromethoxybenzylsulfonyl)-ethyl]morpholine-4-carboxamide; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates (e.g. hydrates) of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

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Pharmacology and Utility:

The compounds of the invention are selective inhibitors of cathepsin S and, as such, are useful for treating diseases in which cathepsin S activity contributes to the pathology and/or symptomatology of the disease. For example, the compounds of the invention are useful in treating autoimmune disorders, including, but not limited to, juvenile onset diabetes, multiple sclerosis, pemphigus vulgaris, Graves' disease,

myasthenia gravis, systemic lupus erythemotasus, rheumatoid arthritis and Hashimoto's thyroiditis, allergic disorders, including, but not limited to, asthma, and allogeneic immune responses, including, but not limited to, organ transplants or tissue grafts.

Cathepsin S also is implicated in disorders involving excessive elastolysis, such as chronic obstructive pulmonary disease (e.g., emphysema), bronchiolitis, excessive airway elastolysis in asthma and bronchitis, pneumonities and cardiovascular disease such as plaque rupture and atheroma. Cathepsin S is implicated in fibril formation and, therefore, inhibitors of cathepsins S are of use in treatment of systemic amyloidosis.

The cysteine protease inhibitory activities of the compounds of the invention can be determined by methods known to those of ordinary skill in the art. Suitable *in vitro* assays for measuring protease activity and the inhibition thereof by test compounds are known. Typically, the assay measures protease induced hydrolysis of a peptide based substrate. Details of assays for measuring protease inhibitory activity are set forth in Examples 11, 12, 13 and 14, *infra*.

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## Administration and Pharmaceutical Compositions:

In general, compounds of Formula I will be administered in therapeutically effective amounts via any of the usual and acceptable modes known in the art, either singly or in combination with another therapeutic agent. A therapeutically effective amount may vary widely depending on the severity of the disease, the age and relative health of the subject, the potency of the compound used and other factors. For example, therapeutically effective amounts of a compound of Formula I may range from about 1 micrograms per kilogram body weight (µg/kg) per day to about 1 milligram per kilogram body weight (mg/kg) per day, typically from about 10 µg/kg/day to about 0.1 mg/kg/day. Therefore, a therapeutically effective amount for a 80 kg human patient may range from about 100 µg/day to about 100 mg/day, typically from about 1 µg/day to about 10 mg/day. In general, one of ordinary skill in the art, acting in reliance upon personal knowledge and the disclosure of this Application, will be able to ascertain a therapeutically effective amount of a compound of Formula I for treating a given disease.

The compounds of Formula I can be administered as pharmaceutical compositions by one of the following routes: oral, systemic (e.g., transdermal, intranasal or by suppository) or parenteral (e.g., intramuscular, intravenous or subcutaneous). Compositions can take the form of tablets, pills, capsules, semisolids, powders, sustained release formulations, solutions, suspensions, elixirs, aerosols, or any other appropriate composition and are comprised of, in general, a compound of Formula I in combination with at least one pharmaceutically acceptable excipient. Acceptable excipients are non-toxic, aid administration, and do not adversely affect the therapeutic benefit of the active ingredient. Such excipient may be any solid, liquid, semisolid or, in the case of an aerosol composition, gaseous excipient that is generally available to one of skill in the art.

Solid pharmaceutical excipients include starch, cellulose, talc, glucose, lactose, sucrose, gelatin, malt, rice, flour, chalk, silica gel, magnesium stearate, sodium stearate, glycerol monostearate, sodium chloride, dried skim milk, and the like. Liquid and semisolid excipients may be selected from water, ethanol, glycerol, propylene glycol and various oils, including those of petroleum, animal, vegetable or synthetic origin (e.g., peanut oil, soybean oil, mineral oil, sesame oil, and the like). Preferred liquid carriers, particularly for injectable solutions, include water, saline, aqueous dextrose and glycols.

The amount of a compound of Formula I in the composition may vary widely depending upon the type of formulation, size of a unit dosage, kind of excipients and other factors known to those of skill in the art of pharmaceutical sciences. In general, a composition of a compound of Formula I for treating a given disease will comprise from 0.01%w to 10%w, preferably 0.3%w to 1%w, of active ingredient with the remainder being the excipient or excipients. Preferably the pharmaceutical composition is administered in a single unit dosage form for continuous treatment or in a single unit dosage form ad libitum when relief of symptoms is specifically required.

Representative pharmaceutical formulations containing a compound of Formula I are described in Example 15.

# Chemistry:

Compounds of the invention may be prepared by the application or adaptation of known methods, by which is meant methods used heretofore or described in the literature, for example those described by R.C. Larock in Comprehensive Organic Transformations, VCH publishers, 1989.

In reactions described hereinafter it may be necessary to protect reactive functional groups, for example hydroxy, amino, imino, thio or carboxy groups, where these are desired in the final product, to avoid their unwanted participation in the reactions. Conventional protecting groups may be used in accordance with standard practice, for examples see T.W. Greene and P.G.M. Wuts in "Protective Groups in Organic Chemistry", John Wiley and Sons, 1999.

Processes for Making Compounds of Formula I:

Compounds of Formula I can be prepared by proceeding as in the following Reaction Scheme 1:

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Reaction Scheme 1

$$X^2R^3$$
 $X^1$ 
 $X^2$ 
 $X^1$ 
 $X^2$ 
 $X^1$ 
 $X^1$ 
 $X^2$ 
 $X^1$ 
 $X^1$ 

in which each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined for Formula I in the Summary of the Invention.

Compounds of Formula I can be prepared by condensing an acid of Formula 2 with an aminoalkanonitrile of the formula NH<sub>2</sub>CR<sup>1</sup>R<sup>2</sup>CN and then oxidizing. The

condensation reaction can be effected with an appropriate coupling agent (e.g., benzotriazol-1-yloxytrispyrrolidinophosphonium hexafluorophosphate (PyBOP®), 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (EDCI), O-benzotriazol-1-yl-N,N,N',N'-tetramethyluronium hexafluorophosphate (HBTU), 1,3-dicyclohexylcarbodiimide (DCC), or the like) and optionally an appropriate catalyst (e.g., 1-hydroxybenzotriazole (HOBt), 1-hydroxy-7-azabenzotriazole (HOAt), O-(7-azabenzotrizol-1-yl)-1,1,3,3, tetra-methyluroniumhexafluorophosphate (HATU), or the like) and non-nucleophilic base (e.g., N-methylpyrrolidinone, N-methylmorpholine, and the like, or any suitable combination thereof) at ambient temperature and requires 5 to 10 hours to complete.

The oxidation can be carried out with an oxidizing agent (e.g., Oxone<sup>®</sup>, or the like) in a suitable solvent (e.g., methanol, water, or the like, or any suitable combination thereof) at ambient temperature and requires 16 to 24 hours to complete. A detailed description for the synthesis of a compound of Formula I by the processes in Reaction Scheme 1 is set forth in the Examples 1, 2, 8 and 10, infra.

Compounds of Formula I can be prepared by proceeding as in the following Reaction Scheme 2:

## Reaction Scheme 2

$$X^{2}R^{3}$$
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3}$ 
 $X^{1}$ 
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 $X^{3}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{4}$ 

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in which n is 0 or 2, L is a leaving group and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined for Formula I in the Summary of the Invention.

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Compounds of Formula I can be prepared by condensing a compound of Formula 3 with a compound of the formula R<sup>4</sup>L (e.g., 3-acetylbenzoic acid, nicotinic acid, morpholin-4-ylcarbonyl chloride, or the like) and then oxidizing when n is 0. When L is chloro the condensation can be carried out at ambient temperature in the presence of a suitable non-nucleophilic base (e.g., triethylamine, *N*-methylmorpholine, or the like) in a suitable solvent (e.g., dichloromethane, tetrahydrofuran, or the like) and requires 16 to 24 hours to complete. When L is hydroxy the condensation typically is effected in the presence of a suitable coupling agent (e.g., (PyBOP®), EDCI, HBTU, DCC, or the like) and optionally an appropriate catalyst (e.g., 1-hydroxybenzotriazole (HOBt), 1-hydroxy-7-azabenzotriazole (HOAt), or the like) in a suitable solvent (e.g., dichloromethane, tetrahydrofuran, or the like, or any suitable combination thereof) at ambient temperature and requires 16 to 24 hours to complete.

The oxidization can be carried out by the process described above for Reaction Scheme 1. Detailed procedures for the syntheses of compounds of Formula I by the processes described in Scheme 2 are set forth in the Examples 3, 4 and 5, infra.

Compounds of Formula I in which R<sup>4</sup> is -NR<sup>13</sup>R<sup>14</sup> or -NR<sup>20</sup>R<sup>21</sup> can be prepared by proceeding as in the following Reaction Scheme 3:

#### Reaction Scheme 3

$$\begin{array}{c}
X^{2}R^{3} \\
S(O)_{n}
\end{array}$$

$$\begin{array}{c}
H \\
N \\
R^{1}
\end{array}$$

$$\begin{array}{c}
A \\
1. NHR^{13}R^{14} \text{ or } NHR^{20}R^{2}.
\end{array}$$

$$\begin{array}{c}
X^{2}R^{3} \\
2. Oxidation \text{ (when n is 0)}
\end{array}$$

$$\begin{array}{c}
X^{2}R^{3} \\
X^{1} \\
S(O)_{2}
\end{array}$$

$$\begin{array}{c}
X^{1} \\
R^{2}
\end{array}$$

$$\begin{array}{c}
X^{1} \\
X^{1} \\
X^{1}
\end{array}$$

in which  $R^{19}$  is -NR<sup>13</sup>R<sup>14</sup> or -NR<sup>20</sup>R<sup>21</sup>, wherein  $R^{20}$  and  $R^{21}$  together with the nitrogen atom to which  $R^{20}$  and  $R^{21}$  are attached form hetero( $C_{5-12}$ )cycloalkyl and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^{13}$  and  $R^{14}$  are as defined in the Summary of the Invention.

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Compounds of Formula I in which  $R^4$  is  $-C(O)NR^{13}R^{14}$  or  $-C(O)NR^{20}R^{21}$ , wherein  $R^{20}$  and  $R^{21}$  together with the nitrogen atom to which  $R^{20}$  and  $R^{21}$  are attached form hetero( $C_{5-12}$ )cycloalkyl and  $R^{13}$  and  $R^{14}$  are as defined in the Summary of the Invention can be prepared by condensing a compound of Formula 4 with a compound of the formula  $NHR^{13}R^{14}$  or  $NHR^{20}R^{21}$ , respectively, and then oxidizing when n is 0. The condensation reaction can be carried out at ambient temperature in a suitable solvent (e.g., dichloromethane, or the like) and requires 16 to 24 hours to complete.

The oxidization can be carried out by the process described above for Reaction Scheme

1. A detailed description for the synthesis of a compound of Formula I by the processes in Scheme 3 is set forth in the Example 6, infra.

Compounds of Formula I can be prepared by proceeding as in the following Reaction Scheme 4:

Reaction Scheme 4

in which L is a leaving group and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined for Formula I in the Summary of the Invention.

Compounds of Formula I can be prepared by reacting a compound of Formula 5 with a compound of the formula R<sup>3</sup>X<sup>2</sup>L and then oxidizing. The reaction is carried out in the presence of base (e.g., potassium hydroxide, or the like) at ambient temperature and requires 2 to 3 hours to complete. The oxidization can be carried out by the process described above for Reaction Scheme 1. A detailed description for the synthesis of a compound of Formula I by the processes in Scheme 4 is set forth in the Examples 7 and 9, infra.

Compounds of Formula 2 can be prepared by reacting a compound of Formula 6:

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with a compound of the formula  $R^4L$ , in which L is a leaving group and  $X^1$ ,  $X^2$  and  $R^3$  are as defined in the Summary of the Invention. The reaction can be carried out in the

presence of base (e.g., 1 N aqueous sodium hydroxide, or the like) at about .5° C. A detailed description for the synthesis of a compound of Formula 2 by the processes described above is set forth in the References 1 and 7, infra. Compounds of Formula 6 are commercially available or otherwise can be prepared by methods known in the art or analogous to those described elsewhere in this Application.

Compounds of Formula 2 in which X<sup>1</sup> is ethylene can be prepared by condensing a diester of Formula 7:

$$R^{4} \underbrace{N C(O)_{2}Et}_{C(O)_{2}Et}$$

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with a compound of the formula R<sup>3</sup>SCH<sub>2</sub>CH<sub>2</sub>L to provide a compound of Formula 8:

$$R^4$$
 $C(O)_2Et$ 
 $R^4$ 
 $R^4$ 
 $R^4$ 
 $C(O)_2Et$ 

in which L is a leaving group and R<sup>3</sup> and R<sup>4</sup> are as defined in the Summary of the Invention, decarbalkoxylating to provide a corresponding monoester and then converting the monoester to a corresponding carboxylic acid. The condensation reaction can be carried out in the presence of a suitable non-nucleophilic base (e.g., N-methylpyrrolidone) and lithium hydroxide. The decarbalkoxylation can be effected under strongly basic conditions (e.g., in the presence of 1 N aqueous sodium hydroxide) in a suitable solvent (e.g, methanol) and requires 4 to 6 hours to complete. A detailed description for the synthesis of a compound of Formula 2 by the processes described above is set forth in the Reference 2, infra.

Compounds of Formula 3 can be prepared by condensing a compound of Formula 9:

$$PG \xrightarrow{N} H O$$

with an aminoalkanonitrile of the formula  $NH_2CR^1R^2CN$ , in which PG is a protecting group and each  $X^1$ ,  $R^1$ ,  $R^2$  and  $R^3$  are as defined in the Summary of the Invention,

- optionally oxidizing and then deprotecting. The condensation reaction can be effected with an appropriate condensing agent (e.g., *N*,*N*-dicyclohexyldiimide, diisopropylcarbodiimide, carbonyldiimidazole, or the like) and a suitable non-nucleophilic base (e.g., *N*-methylpyrrolidinone, *N*-methylmorpholine, or the like, or
- any suitable combination thereof) in a suitable solvent (e.g., dichloromethane, or the like) at ambient temperature and requires 2 to 3 days to complete. Oxidization can be carried out by the process described above for Reaction Scheme 1. Deprotection can be effected by any means which removes the protective group and gives the desired product in reasonable yield. A detailed description of the techniques applicable to the creation of protective groups and their removal can be found in T.W. Greene,
- 15 Protective Groups in Organic Synthesis, 3<sup>rd</sup> edition, John Wiley & Sons, Inc. 1999. A convenient method of deprotecting is by treatment with a suitable acid (e.g., p-toluenesulfonic acid, or the like) providing the acid addition salt in the process. A detailed description for the synthesis of a compound of Formula 3 by the processes described above is set forth in the References 3, 4 and 5, infra.
- Compounds of Formula 4 can be prepared by reacting a compound of Formula 3 with phosgene. The reaction is carried out conveniently in a biphasic solvent (e.g., an equal mixture of dichloromethane and saturated sodium bicarbonate solution at ambient temperature. A detailed description for the synthesis of a compound of Formula 4 by the processes described above is set forth in the Reference 6, infra.
- Compounds of Formula 5 can be prepared by sequentially condensing an acid of Formula 10:

with an aminoalkanonitrile of the formula NHR<sup>2</sup>CR<sup>3</sup>R<sup>4</sup>CN and a compound of the formula R<sup>4</sup>L and then deprotecting. The condensation reaction is carried out in a fashion analogous to the process described above for the preparation of the compounds of Formula 3. The condensation reaction with the compound of the formula R<sup>4</sup>L is carried out in a fashion analogous to the process described above for the preparation of the compounds of Formula I by Scheme 2. The deprotection can be effected by treatment with a suitable reducing agent (e.g., tris-butyl phosphine, tris-carboxyethyl phosphine, or the like) in the presence of base (e.g., aqueous potassium hydroxide, or the like) in a suitable solvent (e.g., DMF, or the like) under an inert atmosphere and at ambient temperature and requires 12 to 24 hours. A detailed description for the synthesis of a compound of Formula 5 by the processes decribed above is set forth in the Reference 8, infra.

#### Additional Processes for Preparing Compounds of Formula I:

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A compound of Formula I can be prepared as a pharmaceutically acceptable acid addition salt by reacting the free base form of the compound with a pharmaceutically acceptable inorganic or organic acid. Alternatively, a pharmaceutically acceptable base addition salt of a compound of Formula I can be prepared by reacting the free acid form of the compound with a pharmaceutically acceptable inorganic or organic base. Inorganic and organic acids and bases suitable for the preparation of the pharmaceutically acceptable salts of compounds of Formula I are set forth in the definitions section of this Application. Alternatively, the salt forms of the compounds of Formula I can be prepared using salts of the starting materials or intermediates.

The free acid or free base forms of the compounds of Formula I can be prepared from the corresponding base addition salt or acid addition salt form. For example, a compound of Formula I in an acid addition salt form can be converted to the corresponding free base by treating with a suitable base (e.g., ammonium hydroxide solution, sodium hydroxide, and the like). A compound of Formula I in a base addition salt form can be converted to the corresponding free acid by treating with a suitable acid (e.g., hydrochloric acid, etc).

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The *N*-oxides of compounds of Formula I can be prepared by methods known to those of ordinary skill in the art. For example, *N*-oxides can be prepared by treating an unoxidized form of the compound of Formula I with an oxidizing agent (e.g., trifluoroperacetic acid, permaleic acid, perbenzoic acid, peracetic acid, *meta*-chloroperoxybenzoic acid, or the like) in a suitable inert organic solvent (e.g., a halogenated hydrocarbon such as dichloromethane) at approximately 0°C. Alternatively, the *N*-oxides of the compounds of Formula I can be prepared from the *N*-oxide of an appropriate starting material.

Compounds of Formula I in unoxidized form can be prepared from *N*-oxides of compounds of Formula I by treating with a reducing agent (e.g., sulfur, sulfur dioxide, triphenyl phosphine, lithium borohydride, sodium borohydride, phosphorus trichloride, tribromide, or the like) in an suitable inert organic solvent (e.g., acetonitrile, ethanol, aqueous dioxane, or the like) at 0 to 80°C.

Prodrug derivatives of the compounds of Formula I can be prepared by methods known to those of ordinary skill in the art (e.g., for further details see Saulnier *et al.*(1994), *Bioorganic and Medicinal Chemistry Letters*, Vol. 4, p. 1985). For example, appropriate prodrugs can be prepared by reacting a non-derivatized compound of Formula I with a suitable carbamylating agent (e.g., 1,1-acyloxyalkylcarbonochloridate, *para*-nitrophenyl carbonate, or the like).

Protected derivatives of the compounds of Formula I can be made by means known to those of ordinary skill in the art. A detailed description of the techniques applicable to the creation of protecting groups and their removal can be found in T.W. Greene, *Protecting Groups in Organic Synthesis*, 3<sup>rd</sup> edition, John Wiley & Sons, Inc. 1999.

Compounds of the present invention may be conveniently prepared, or formed during the process of the invention, as solvates (e.g. hydrates). Hydrates of compounds of the present invention may be conveniently prepared by recrystallisation from an aqueous/organic solvent mixture, using organic solvents such as dioxan, tetrahydrofuran or methanol.

Compounds of Formula I can be prepared as their individual stereoisomers by reacting a racemic mixture of the compound with an optically active resolving agent to form a pair of diastereoisomeric compounds, separating the diastereomers and recovering the optically pure enantiomer. While resolution of enantiomers can be carried out using covalent diasteromeric derivatives of compounds of Formula I, dissociable complexes are preferred (e.g., crystalline diastereoisomeric salts).

Diastereomers have distinct physical properties (e.g., melting points, boiling points, solubilities, reactivity, etc.) and can be readily separated by taking advantage of these dissimilarities. The diastereomers can be separated by chromatography or, preferably, by separation/resolution techniques based upon differences in solubility. The optically pure enantiomer is then recovered, along with the resolving agent, by any practical means that would not result in racemization. A more detailed description of the techniques applicable to the resolution of stereoisomers of compounds from their racemic mixture can be found in Jean Jacques Andre Collet, Samuel H. Wilen, Enantiomers, Racemates and Resolutions, John Wiley & Sons, Inc. (1981).

In summary, the compounds of Formula I are made by a process which comprises:

#### (A) reacting a compound of Formula 2:

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 $R^4$  OH

with a compound of the formula NH<sub>2</sub>CR<sup>1</sup>R<sup>2</sup>CN, in which X<sup>1</sup>, X<sup>2</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are

as defined in the Summary of the Invention for Formula I; or

(B) reacting a compound of Formula 3:

$$X^2R^3$$
 $X^1$ 
 $S(O)_n$ 
 $X^1$ 
 $X^2$ 
 $X^1$ 
 $X^2$ 
 $X^3$ 
 $X^1$ 
 $X^2$ 
 $X^3$ 
 $X^1$ 
 $X^2$ 
 $X^3$ 
 $X^1$ 
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 $X^2$ 
 $X^3$ 
 $X^3$ 
 $X^4$ 
 $X^4$ 

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with a compound of the formula  $R^4L$ , in which n is 0 or 2, L is a leaving group and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined in the Summary of the Invention for Formula I, and then oxidizing when n is 0; or

(C) reacting a compound of Formula 4:

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$$O = C$$

$$O =$$

with a compound of formula NHR<sup>13</sup>R<sup>14</sup> or NHR<sup>20</sup>R<sup>21</sup> to provide a compound of Formula I in which R<sup>4</sup> is -C(O)NR<sup>13</sup>R<sup>14</sup> or -C(O)NR<sup>20</sup>R<sup>21</sup>, respectively, wherein n is 0 or 2, R<sup>20</sup> and R<sup>21</sup> together with the nitrogen atom to which R<sup>20</sup> and R<sup>21</sup> are attached form hetero(C<sub>5-12</sub>)cycloalkyl and each X<sup>1</sup>, X<sup>2</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>13</sup> and R<sup>14</sup> are as defined in the Summary of the Invention for Formula I, and then oxidizing when n is 0; or

(D) reacting a compound of Formula 5:

$$\begin{array}{c|c}
R^4 & H & C & N \\
N & N & R^2 & R^1
\end{array}$$

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with a compound of  $R^3X^2L$  in which L is a leaving group and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined in the Summary of the Invention for Formula I; and

(E) optionally converting a compound of Formula I into a pharmaceutically acceptable salt;

- (F) optionally converting a salt form of a compound of Formula I to non-salt form;
- (G) optionally converting an unoxidized form of a compound of Formula I into a pharmaceutically acceptable *N*-oxide;
- (H) optionally converting an *N*-oxide form of a compound of Formula I its unoxidized form;
- (I) optionally resolving an individual isomer of a compound of Formula I from a mixture of isomers;
- 10 (J) optionally converting a non-derivatized compound of Formula I into a pharmaceutically prodrug derivative; and
  - (K) optionally converting a prodrug derivative of a compound of Formula I to its non-derivatized form.

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Examples:

The present invention is further exemplified, but not limited by, the following examples that illustrate the preparation of compounds of Formula I (Examples) and intermediates (References) according to the invention.

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#### **REFERENCE 1**

2R-Benzoylamino-3-(4-methylbenzylsulfanyl)propionic acid, a compound of Formula 2 in which  $X^2$  is methylene,  $R^3$  is 4-methylphenyl and  $R^4$  is benzoyl

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A solution comprised of 2*R*-amino-3-(4-methylbenzylsulfanyl)propionic acid (2.25 g, 10 mmol) in 1 N aqueous sodium hydroxide (10 mL) was cooled to -5° C and then treated with benzoyl chloride (1.16 mL, 10 mmol) and 1 N aqueous sodium hydroxide. The reaction was allowed to proceed for 30 minutes and then the mixture was acidified with 1 N aqueous hydrochloric acid (10 mL) to form a precipitate. The precipitate was isolated by filtration to provide 2*R*-benzoylamino-preciptate was

isolated by filtration to provide <u>2R-benzoylamino-3-(4-methylbenzylsulfanyl)propionic</u> acid (3.38 g, 10 mmol).

#### **REFERENCE 2**

 $\frac{2\text{-Benzoylamino-4-phenylsulfanylbutyric acid}}{\text{a compound of Formula 2 in which }X^2\text{ is a bond, }R^3\text{ is phenyl and }R^4\text{ is benzoyl}$ 

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A solution comprised of sodium iodide (7.9 g, 52.7 mmol) and 2-chloroethyl phenyl sulfide (4.7 g, 27.2 mmol) in acetone (40 mL) was refluxed for 15 hours. The reaction mixture was cooled, diluted with ice water and extracted with ethyl acetate. The extract was concentrated and the residue was combined with *N*-methylpyrrolidone (20 mL), lithium hydroxide (1.6 g, 67 mmol) and diethyl 2-benzoylaminomalonate (5 g, 18 mmol). The mixture was stirred at ambient temperature of 15 hours and then poured into cold water. The product was extracted with ethyl acetate and purified by silica gel chromatography to provide diethyl 2-benzoylamino-2-(2-phenylsulfanylethyl)malonate (1.316 g, 3.2 mmol).

The 2-benzoylamino-2-(2-phenylsulfanylethyl)malonate (1.316 g, 3.2 mmol) was dissolved in methanol (10 mL) and the solution was treated with 1 N aqueous sodium hydroxide (7.0 mL) and then stirred at ambient temperature for 4 hours. The mixture was diluted with water and washed with ether (2x). The aqueous layer was cooled on ice, acidified to pH 2 and extracted with ethyl acetate. The extract was dried (MgSO<sub>4</sub>) and then concentrated. The residue was dissolved in dioxane (30 mL) and the solution was heated at 100° C for 1 hour and then concentrated. Product was purified from the residue by chromatography on silica gel to provide ethyl 2-benzoylamino-4-phenylsulfanylbutyrate (371 mg, 1.1 mmol).

A solution comprised of ethyl 2-benzoylamino-4-phenylsulfanylbutyrate (340 mg, 1.0 mmol) in methanol (4 mL) was treated with 1 N aqueous sodium hydroxide (2 mL) and stirred at ambient temperature for 3 hours. The reaction mixture was cooled on ice, acidified to pH 1 and then extracted with ethyl acetate. The extract was concentrated to provide 2-benzoylamino-4-phenylsulfanylbutyric acid (304 mg, 1.0 mmol).

# **REFERENCE 3**

# tert-Butyl 2-benzylsulfanyl-1R-cyanomethylcarbamoylethylcarbamate

A solution comprised of 3-benzylsulfanyl-

2*R-tert*-butoxycarbonylaminopropionic acid (50 g, 160.6 mmol) and aminoacetonitrile bisulfate (27.2 g, 176.6 mmol) in dichloromethane (400 mL) was cooled in an ice bath and then treated sequentially with carbonyldiimidazole (31.2 g, 192.7 mmol), dichloromethane (250 mL), and *N*-methylmorpholine (35.3 mL, 321.2 mmol). The mixture was stirred for 5 minutes at 0°C and 2 days at ambient temperature, filtered, concentrated and partitioned between ethyl acetate and water. The ethyl acetate layer was washed with water, saturated potassium phosphate solution, water, saturated sodium bicarbonate solution and brine, dried (MgSO<sub>4</sub>), filtered and concentrated. The residue was dried under high vacuum to provide *tert*-butyl 2-benzylsulfanyl-1*R*-cyanomethylcarbamoyl-ethylcarbamate (44.1 g, 126.2 mmol) as a white solid.

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#### **REFERENCE 4**

2R-Amino-3-benzylsulfanyl-N-cyanomethylpropionamide para-toluenesulfonate salt, a compound of Formula 3 in which n is 0,  $X^2$  is methylene,  $R^1$  and  $R^2$  are both hydrogen and  $R^3$  is phenyl

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Toluenesulfonic acid monhydrate (46.7 g, 246 mmol) was dissolved in 2-propanol (200 mL) and the solution was treated with toluene (600 mL). The solvents were removed under reduced pressure and the residue was dissolved in toluene (400 mL). The solution was concentrated under reduced pressure and the residue was dried under high vacuum. The residue was dissolved in anhydrous diethyl ether (200 mL) and the solution was added to a suspension comprised of *tert*-butyl 2-benzylsulfanyl-1*R*-cyanomethylcarbamoyl-ethyl-carbamate (42 g, 120 mmol), prepared as in Reference 3, in anhydrous diethyl ether (700 mL). The mixture was stirred at ambient temperature for approximately 12 hours and then the supernatant was decanted. The residue was dissolved in a small amount of dichloromethane and product was precipitated out with diethyl ether to provide 2*R*-amino-3-benzylsulfanyl-

N-cyanomethylpropionamide para-toluenesulfonate salt (50.7 g, 102 mmol).

#### **REFERENCE 5**

2R-Amino-3-benzylsulfonyl-N-cyanomethylpropionamide methanesulfonate salt, a compound of Formula 3 in which n is 2,  $X^2$  is a methylene,  $R^1$  and  $R^2$  are both hydrogen and  $R^3$  is phenyl

A solution comprised of *tert*-butyl 2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethylcarbamate (0.2 g, 0.57 mmol), prepared as in Reference 3, in methanol (8 mL) was treated with of Oxone<sup>®</sup> (0.526 g, 0.86 mmol) in water (8 mL) and the mixture was stirred at 25° C for 2 hours. The mixture then was diluted with cold water and the product was extracted with ethyl acetate. The extracts were dried and concentrated. The residue was dissolved in ethyl acetate and product was crystallized out to provide *tert*-butyl 2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethylcarbamate (0.158 g 0.41 mmol).

A suspension comprised of *tert*-butyl 2-benzylsulfonyl-1*R*-cyanomethylcarbamoyl-ethylcarbamate (5.22 g, 13.7 mmol) in anhydrous tetrahydrofuran (15 mL) was treated with methanesulfonic acid (1.8 mL, 27 mmol) and then the mixture was disluted with additional tetrahydrofuran (20 mL) and methanesulfonic acid (1.8 mL). The mixture was stirred for 16 hours and then diluted with diethyl ether. A resulting precipitate was collected by filtration to provide 2*R*-amino-3-benzylsulfonyl-*N*-cyanomethylpropionamide methanesulfonate salt (4.4 g, 11.6 mmol).

25 REFERENCE 6

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 $\frac{3\text{-Benzylsulfanyl-}\textit{N}\text{-cyanomethyl-}2\textit{R}\text{-isocyantopropionamide},}{\text{a compound of Formula 4 in which }X^2\text{ is methylene, }R^1\text{ and }R^2\text{ are both hydrogen and }R^3\text{ is phenyl}$ 

A three necked round bottom flask with nitrogen inlet and exit to a 10% sodium hydroxide solution was charged with 2*R*-amino-3-benzylsulfanyl-

*N*-cyanomethylpropionamide *para*-toluenesulfonate salt (5 g, 11.8 mmol), prepared as in Reference 4, dichloromethane (120 mL), and saturated sodium bicarbonate solution (120 mL). The mixture was cooled in an ice bath and stirred for 10 minutes. The layers were allowed to separate and then a 20% solution of phosgene (12.4 mL, 23.6 mmol) in toluene was added to the lower layer. The mixture was stirred for 10 minutes. The aqueous phase was separated and extracted with dichloromethane. The combined organic phase was washed with brine, dried (MgSO<sub>4</sub>), filtered, diluted with toluene (20 mL), concentrated and dried under high vacuum. The residue was dissolved in dichloromethane (15 mL) to provide a stock solution of <u>3-benzylsulfanyl-</u>

10 <u>N-cyanomethyl-2*R*-isocyantopropionamide</u>.

#### **REFERENCE 7**

# (R)-3-[2-(1,1-Difluoro-methoxy)-phenylmethanesulfonyl]-2-[(1-morpholin-4-yl-methanoyl)-amino]-propionic acid

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A solution of (R)-2-tert-butoxycarbonylamino-3-((R)-2tert-butoxycarbonylamino-2-carboxy-ethyldisulfanyl)-propionic acid (i.e., Boc-L-Cystine) (25 g, 56.75 mmol) in DMF (250 mL) was treated with tris(carboxyethyl)phosphine hydrochloride (17.9 g, 62.4 mmol). A solution of KOH (31.8 g, 567 mmol) in water (100 mL) was added over 2 minutes and the exothermic reaction was cooled with a 20°C water bath. The mixture was stirred for 2 hours at room temperature, diluted with 2-(difluoromethoxy) benzyl bromide and stirred for 2 hours. The mixture was acidified with 1N HCl and extracted with ethyl acetate (3 x 250mL). The combined organic layers were washed with brine, dried (MgSO<sub>4</sub>)and concentrated. The residue was dried under high vacuum and then dissolved in CH<sub>2</sub>Cl<sub>2</sub> (80 mL). The solution was diluted with trifluoroacetic acid (80 mL) and the mixture was stirred at room temperature for 2.5 hours. All volatile components were removed under vacuum and the residue was dissolved in water (200 mL). The solution was adjusted to pH 6 to 7 with 1N NaOH to give a precipitate, which was collected by filtration, washed with water and dried under vacuum to yield (R)-2-amino-3-[2-(1,1-difluoro-methoxy)-benzylsulfanyl]-propionic acid as white solid (27.5 g).

A mixture of (R)-2-amino-3-[2-(1,1-difluoro-methoxy)-benzylsulfanyl]propionic acid (5 g, 18.03 mmol) and N-methyl-N-(trimethylsilyl)trifluoroacetamide (8.5 mL, 45.8 mmol) was heated at 70°C under N<sub>2</sub> for 1 hour. All volatile reaction products were removed under vacuum. The residue was dissolved in CH<sub>2</sub>Cl<sub>2</sub> (10 mL) and the solution treated with morpholinecarbonyl chloride (4.2 mL, 36 mmol). The mixture was stirred at room temperature for 16 hours and then diluted with ethyl acetate (300mL). The mixture was washed with water (50 mL) and brine (100 mL), dried (MgSO<sub>4</sub>) and concentrated. The residue was dissolved in methanol (250 mL) and a saturated aqueous solution of Oxone® (35 g, 57 mmol) was added. The mixture was stirred at room temperature for 2 hours. The methanol was removed under vacuum and the remaining aqueous phase was extracted with ethyl acetate (3 x 200mL). The combined organic layers were washed with brine, dried (MgSO<sub>4</sub>) and evaporated. The product was purified by flash chromatography on silica gel (Eluent: ethyl acetate to 10% methanol in ethyl acetate) to yield (R)-3-[2-(1,1-difluoro-methoxy)phenylmethanesulfonyl]-2-[(1-morpholin-4-yl-methanoyl)-amino]-propionic acid as colorless oil (6.5 g).

## **REFERENCE 8**

 $N\hbox{-}[2\hbox{-}tert\hbox{-}Butyld is ulfanyl-}1R\hbox{-}cyanomethyl carbamoylethyl] morpholine-}4\hbox{-}carbox a mide$ 

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A solution comprised of 2*R*-amino-3-tert-butyldisulfanylpropionic acid hydrate (25 g, 119 mmol) in sodium hydroxide (1N, 300 mL) was cooled to 0°C and then treated with 4-morpholinecarbonyl chloride (13.9 mL, 119 mmol) added slowly. The mixture was treated with additional amounts of sodium hydroxide (5N, 100 mL) and 4-morpholinecarbonyl chloride (27.8 mL, 238 mmol), stirred for approximately 12 hours and acidification with concentrated hydrochloric acid. Product was extracted with ethyl acetate and the combined extracts were washed with brine, dried (MgSO<sub>4</sub>) and concentrated. The product was recrystallized from ethyl acetate/hexane, to provide 3-tert-butyldisulfanyl-2*R*-morpholin-4-ylcarbonylaminopropionic acid (16.5 g, 51.2 mmol) as a white crystalline solid.

A suspension of 3-tert-butyldisulfanyl-2R-morpholin-4-ylcarbonylaminopropionic

acid (16.25 g, 50.4 mmol) in methylene chloride (100 mL) was treated with EDCI (10.6 g, 55.4 mmol), HOBt (8.85 g, 65.5 mmol) and aminoacetonitrile hydrochloride (7.0 g, 75.6 mmol). The mixture then was treated with 4-methylmorpholine (8.31 mL, 75.6 mmol), stirred at ambient temperature for 5 hours and then diluted with ethyl acetate (500 mL). The dilution was washed with saturated aqueous sodium bicarbonate solution, brine, 1N hydrochloric acid and brine, dried (MgSO<sub>4</sub>) and concentrated. Product was purified from the residue by flash chromatography on silica gel with ethyl acetate as eluent to provide *N*-[2-tert-butyldisulfanyl-1*R*-cyanomethylcarbamoylethyl]morpholine-4-carboxamide (7.5 g) as a white solid.

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#### **REFERENCE 9**

## 2-(2-thienyl)aminoacetonitrile hydrochloride

A mixture of ammonium chloride (24.9g, 465 mmol) and 2-thiophenecarboxaldehyde (21.2 mL, 227mmol) in 250mL diethyl ether was treated with an 80mL aqueous solution of sodium cyanide (16.7g, 341 mmol) over 20 minutes. The mixture was allowed to stir for 16 hours. The aqueous layer was removed. The ether layer was washed (2 x 100mL) with saturation sodium bicarbonate solution, dried over anhydrous magnesium sulfate, and concentrated. The residue was dissolved in 250 mL diethyl ether and cooled in an ice bath. Hydrogen chloride was bubbled through the solution until precipitation was complete. The salt was filtered and dried under reduced pressure to give 9.8g of 2-(2-thienyl)aminoacetonitrile hydrochloride.

The following intermediate was provided by proceeding as in reference 9: Amino-furan-2-yl-acetonitrile

#### EXAMPLE 1

N-[(R)-1-(Cyanomethyl-carbamoyl)-2-p-tolylmethanesulfonyl-ethyl]-benzamide (Compound 1)

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A mixture comprised of 2*R*-benzoylamino-3-(4-methylbenzylsulfanyl)propionic acid (1.316 g, 3.88 mmol), prepared as in Reference 1, EDCI (0.878 g, 5.56 mmol), HOBt (0.616 g, 4.56 mmol) and aminoacetonitrile bisulfate (0.726 g, 4.71 mmol) in *N*-methylpyrrolidinone (14 mL) and *N*-methylmorpholine (1 mL) was stirred at 25° C for 5 hours. The mixture then was diluted with cold 0.05 N aqueous hydrochloric acid and the product was extracted with ethyl acetate. The extracts were washed with aqueous sodium bicarbonate, dried and concentrated. The residue was dissolved in *tert*-butylmethyl ether and the product was crystallized from solution to provide *N*-[1*R*-cyanomethylcarbamoyl-2-(4-methylbenzylsulfanyl)ethyl]benzamide (0.86 g).

Mass Spectrum: m/e 367.9 (theory 367.1). NMR Spectrum (DMSO): 8.82 (t, 1H), 8.69 (d, 1H), 7.88 (d, 2H), 7.5 (m, 3H), 7.16 (d, 2H), 7.08 (d, 2H), 4.7 (m, 1H), 4.2 (d, 2H), 3.7 (s, 2H), 2.75 (m, 2H), 2.1 (s, 3H) ppm.

A solution comprised of N-[1R-cyanomethylcarbamoyl-2-(4-methylbenzylsulfanyl)ethyl]benzamide (0.365 g, 0.99 mmol) in methanol (20 mL) was treated with Oxone<sup>®</sup> (1.03 g, 1.68 mmol) in water (20 mL) and the mixture was stirred at 25° C for 16 hours. The mixture then was diluted with cold water and the product was extracted with ethyl acetate. The extracts were dried and concentrated. The residue was dissolved in ethyl acetate and the product was crystallized from solution to provide N-[1R-cyanomethylcarbamoyl-

25 2-(4-methylbenzylsulfonylsulfanyl)ethyl]benzamide (0.229 g 0.57 mmol).

The following compounds of Formula I were provided by proceeding as in Example 1:

N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)benzamide (Compound 2); Mass Spectrum: m/e 386 (theory 385.4); NMR Spectrum (DMSO): δ: 8.98 (d, J = 9.4 Hz, 1H), 8.87 (t, J = 7 Hz, 1H), 7.86 (d, J = 8.5 Hz, 2H), 7.6 - 7.3 (m, 8H), 5.02 (m, 1H), 4.54 (s, 2H), 4.11 (m, 2H), 3.75 (m, 1H), 3.54 (dd, 1H), 3.29 (d, J = 5.6 Hz, 2H) ppm; and

N-[1R-cyanomethylcarbamoyl-2-(4-methoxybenzylsulfonyl)ethyl]benzamide (Compound 3); Mass Spectrum: m/e 415.9 (theory 415.5); NMR Spectrum (DMSO): δ: 8.96 (d, 1H), 8.79 (t, 1H), 7.87 (d, J = 7.4 Hz, 2H), 7.6 - 7.4 (m, 3H), 7.30 (d, J = 10.3 Hz, 2H), 6.94 (d, J = 9.9 Hz, 2H), 5.02 (dd, J = 10.7 and 3.8 Hz,1H), 4.47 (AB q, J = 15.4 Hz, 2H), 4.13 (Br s, 2H), 3.75 (s, 3H), 3.72 (dd, J = 15.7 and 3.4 Hz, 1H), 3.50 (dd, J = 15.9 and 10.4 Hz, 1H) ppm.

15 EXAMPLE 2

N-(3-Phenylsulfonyl-1*R*-cyanomethylcarbamoylpropyl)benzamide (Compound 4)

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A solution comprised of 2*R*-benzoylamino-4-phenylsulfanylbutyric acid (150 mg, 0.5 mmol), prepared as in Reference 2, in *N*-methylpyrrolidone (4 mL) was treated with HOBt (99 mg, 0.8 mmol), EDCI (125 mg, 0.65 mmol), *N*-methylmorpholine (1.5 mmol) and aminoacetonitrile bisulfate (115 mg, 0.75 mmol). The mixture was stirred 4 hours at ambient temperature and then diluted with cold water. Product was extracted with ethyl acetate and the extract was washed with dilute

hydrochloric acid and aqueous sodium bicarbonate, dried and then concentrated to provide *N*-(3-phenylsulfanyl-1*R*-cyanomethylcarbamoylpropyl)-benzamide (122 mg, 0.34 mmol).

A solution comprised of *N*-(3-phenylsulfanyl-1*R*
cyanomethylcarbamoylpropyl)-benzamide (122 mg, 0.34 mmol) in methanol (7 mL)

was treated with Oxone<sup>®</sup> (317 mg, 1.1 mmol) in water (2 mL) and the mixture was

stirred at ambient temperature for 6 hours. The reaction mixture was diluted with

aqueous sodium chloride and product was extracted with ethyl acetate. The extract was

dried and concentrated. The residue was dissolved in ethyl acetate and the product was

crystallized from solution to provide *N*-(3-phenylsulfonyl-1*R*
cyanomethylcarbamoylpropyl)benzamide (122 mg, 0.31 mmol). Mass Spectrum: m/e

385.95 (theory 385.49). NMR Spectrum (DMSO): 8.70 (d, J = 9.4 Hz, 1H), 8.68 (t, J =

6.6 Hz, 1H), 7.95 - 7.45 (m, 10H), 4.45 (m, 1H), 4.13 (d, J = 6.1 Hz, 2H), 3.6 - 3.2 (m,

The following compounds were provided by proceeding as in Example 2:

2H), 2.15 - 1.95 (m, 2H) ppm.

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Morpholine-4-carboxylic acid [(S)-1-(cyanomethyl-carbamoyl)-3-(2-trifluoromethoxy-benzenesulfonyl)-propyl]-amide (Compound 167) NMR <sup>1</sup>H (DMSO, 300 MHz): 8.53 (t, 5.2Hz, 1H), 7.98 (d, 8.2Hz, 1H), 7.89 (t, 6.2 Hz, 1H), 7.65 (m, 2H), 6.78 (d, 8.2 Hz, 1H), 4.20 (m, 1H), 4.08 (d, 3.6 Hz, 2H), 3.55 (m, 4H), 3.40 (m, 2H), 3.24 (m, 4H), 1.98 (m, 1H), 1.82 (m, 1H); MS (M-1) = 476.2;

Morpholine-4-carboxylic acid [(S)-3-benzenesulfonyl-1-(cyanomethyl-carbamoyl)-propyl]-amide (Compound 168) NMR <sup>1</sup>H,(DMSO, 300 MHz) 8.50 (t, 5.1 Hz, 1H), 7.88 (d, 7.1 Hz, 2H), 7.75 (m, 1H), 7.65 (t, 7.1 Hz, 2H), 4.18 (m, 1H), 4.10 (d, 3.5 Hz, 2H), 3.50 (m, 4H), 3.35 (m, 2H), 3.21 (m, 4H), 1.75-2.05 (m, 2H);

Morpholine-4-carboxylic acid [(S)-1-(cyanomethyl-carbamoyl)-3-(4-trifluoromethoxy-benzenesulfonyl)-propyl]-amide (Compound 169) NMR <sup>1</sup>H,(DMSO, 300 MHz) 8.55 (t, 5.9 Hz, 1H), 8.04 (d, 8.9 Hz, 2H), 7.45 (d, 8.9 Hz, 2H), 7.72 (d, 8.1 Hz, 1H), 4.20 (m, 1H), 4.08 (d, 3.7,Hz, 2H), 3.53 (m, 4H), 3.20-3.45 (m, 6H), 1.75-2.05 (m, 2H); MS (M+1) = 479.0;

Thiophene-2-carboxylic acid [(S)-1-(cyanomethyl-carbamoyl)-3-(2-trifluoromethoxy-benzenesulfonyl)-propyl]-amide (Compound 170) NMR <sup>1</sup>H: (DMSO,

300 MHz) 8.74 (m, 1H), 7.95 (d, 8.8.Hz, 2H), 7.88 (m, 1H), 7.80 (m, 3H), 7.65 (m, 2H), 4.50 (m, 1H), 4.12 (d, 3.6 Hz, 2H), 3.40 (m, 2H), 2.12 (m, 1H), 1.90 (m, 1H); MS (M-1) = 474.0;

[(S)-1-(Cyanomethyl-carbamoyl)-3-(2-trifluoromethoxy-phenylsulfanyl)-5 propyl]-carbamic acid *tert*-butyl ester (Compound 171) MS (M+1) = 465.8;

# **EXAMPLE 3**

# 3-Acetyl-*N*-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)benzamide (Compound 5)

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A mixture comprised of 2R-amino-3-benzylsulfanyl-N-

cyanomethylpropionamide *para*-toluenesulfonate salt (845 mg, 2 mmol), prepared as in Reference 4, EDCI (423 mg, 2.2 mmol), HOBt (459 mg, 3 mmol), 3-acetylbenzoic acid (328 mg, 2 mmol) and anhydrous dichloromethane (1.5 mL) was treated with *N*-methylmorpholine (0.485 mL, 4.4 mmol), stirred for 16 hours and then diluted with ethyl acetate. The mixture was washed with water, 1 N hydrochloric acid, water, sodium bicarbonate solution, water and brine, dried (MgSO<sub>4</sub>), filtered and concentrated.

The residue was stirred vigorously in diethyl ether and a resulting precipitate was collected by filtration and dried under high vacuum to provide 3-acetyl-*N*-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethyl)benzamide (420 mg, 1.1 mmol).

A solution comprised of 3-acetyl-*N*-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoyl-ethyl)benzamide 0.198 g, 0.5 mmol) in methanol (8 mL) was treated with Oxone<sup>®</sup> (0.46 g, 0.75 mmol) in water (8 mL) and the reaction mixture was

stirred at 25°C for 16 hours. The reaction mixture then was diluted with cold water and the product was extracted with ethyl acetate. The extracts were dried and concentrated. The residue was dissolved in ethyl acetate and the product was crystallized from solution to provide 3-acetyl-N-(2-benzylsulfonyl-1R-

5 cyanomethylcarbamoylethyl)benzamide (0.169 g 0.395 mmol). Mass Spectrum: m/e m<sup>+</sup> 428.0, m<sup>+</sup> 426.2; NMR Spectrum (CD<sub>3</sub>OD): 8.49 (m, 1H), 8.16 (m, 1H), 8.09 (m, 1H), 7.61 (m, 1H), 7.45 (m, 2H), 7.37 (m, 3H), 5.21 (dd, J = 3.96, 11.14 Hz, 1H), 4.50 (m, 2H), 4.17 (d, J = 1.24 Hz, 2H), 3.88 (dd, J = 3.96, 15.93 Hz, 1H), 3.54 (dd, J = 9.15, 16.23 Hz, 1H).

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The following compounds of Formula I were provided by proceeding as in Example 3:

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)naphthalene-2-carboxamide (Compound 6); Mass Spectrum: m/e 435.83; NMR Spectrum (CDC1<sub>3</sub>): 8.30 (s, 1H), 7.81 (m, 5H), 7.49 (m, 2H), 7.33 (m, 5H), 5.16 (m, 1H), 4.34 (d, J = 2.7 Hz, 2H), 4.09 (s, 2H), 3.55 (m, 2H);

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)furan-3-carboxamide (Compound 7); Mass Spectrum: m/e 375.80; NMR Spectrum (CDC1<sub>3</sub>): 8.00 (m, 1H), 7.45 (m, 3H), 7.40 (m, 4H), 6.65 (m, 1H), 5.10 (m, 1H), 4.41 (m, 2H), 4.14 (m, 2H), 3.70 (m, 1H), 3.31 (m, 1H);

N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)benzo[1,3]dioxole-5-carboxamide (Compound 8); Mass Spectrum: m/e 429.85; NMR Spectrum (CDC1<sub>3</sub>): 7.32 - 7.43 (m, 6H), 7.26 (d, J = 1.92Hz), 6.79 (d, J = 7.92 Hz, 1H), 5.99 (s, 2H), 5.10 (dd, J = 6.87, 10.02 Hz, 1H), 4.35 (m, 2H), 4.09 (m, 2H), 3.60 (dd, J = 6.44, 15.20 Hz, 1H), 3.42 (dd, J = 5.45, 16.47Hz, 1H);

N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)-3-pyrid-3-ylacrylamide (Compound 9); Mass Spectrum m/e m<sup>+</sup> 412.76; <sup>1</sup>H-NMR (300MHz, CDCl<sub>3</sub>, δ ppm), 8.78 (m, 1H), 8.53 (m, 1H), 7.88 (m, 1H), 7.58 (d, J = 18Hz, 1H), 7.36 (m, 6H), 6.63 (m, 1H), 5.08 (m, 1H), 4.36 (m., 2H), 4.10 (d, J = 5.8Hz, 2H), 3.48 (m, 2H);

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)benzofuran-2-carboxamide (Compound 10); Mass Spectrum: m/e 425.83; NMR Spectrum (CD<sub>3</sub>OD): 7.35 (m, 1H),

 $7.60 \text{ (m, 1H)}, 7.55 \text{ (m, 1H)}, 7.44 - 7.50 \text{ (m, 3H)}, 7.29 - 7.39 \text{ (m, 4H)}, 5.23 \text{ (dd, J} = 4.21, 6.44 Hz, 1H)}, 4.50 \text{ (s, 2H)}, 4.16 \text{ (d, J} = 1.98 Hz)}, 3.87 \text{ (dd, J} = 4.21, 16.5 Hz)}, 3.58 \text{ (dd, J} = 8.66, 16.5 Hz)};$ 

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)furan-2-carboxamide

(Compound 11); Mass Spectrum: m/e 375.80; NMR Spectrum (CD<sub>3</sub>OD): 7.69 (dd, J = 0.74, 1.73 Hz, 1H), 7.44 (m, 2H), 7.37 (m, 4H), 7.18 (dd, J = 0.74, 2.72 Hz, 1H), 6.61 (dd, J = 1.72, 2.60 Hz, 1H), 5.14 (dd, J = 4.21, 6.31 Hz, 1H), 4.48 (s, 2H), 4.15 (d, J = 1.98 Hz, 2H), 3.82 (dd, J = 4.21, 14.85 Hz, 1H), 3.52 (dd, J = 8.42, 14.61 Hz, 1H);

tert-butyl 2-benzylsulfonyl-1R-cyanomethylcarbamoylethylcarbamate

(Compound 12); Mass Spectrum: m/e 381.84; NMR Spectrum (DMSO): δ: 8.78 (t, J = 5.20Hz, 1H), 7.43 (m, 6H), 4.58 (dd, J = 2.97, 8.16 Hz, 1H), 4.52 (s, 2H), 4.13 (dd, J = 3.22, 5.44 Hz, 2H), 3.59 (dd, J = 3.46, 7.18 Hz, 1H), 3.33 (m, 1H, under H<sub>2</sub>O), 1.40 (s, 9H);

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)-3-phenoxybenzamide

(Compound 13); Mass Spectrum: m/e: m<sup>+</sup> 477.8, m<sup>-</sup> 476.2; NMR Spectrum (CDC1<sub>3</sub>):

7.62 (m, 1H), 7.3 - 7.54 (M, 11H), 7.15 (m, 1H), 7.00 (m, 1H), 5.16 (dd, J = 5.69, 12.62 Hz, 1H), 4.47 (m, 2H), 4.11 (m, 2H), 3.70 (dd, J = 5.44, 15.09 Hz, 1H), 3.33 (dd, J = 5.69, 16.20 Hz, 1H);

#### tert-butyl [3-(2-benzylsulfonyl-1R-

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cyanomethylcarbamoylethylcarbamoyl)benzyl)-carbamate (Compound 14); Mass
 Spectrum: m/e m<sup>+</sup> 414.8, m<sup>-</sup> 513.2; NMR Spectrum (CD<sub>3</sub>OD): 7.75 (m, 2H), 7.39 (m, 8H), 5.20 (dd, J = 3.96, 8.16 Hz, 1H), 4.48 (s, 2H), 4.24 (s, 2H), 4.13 (m, 2H), 3.85 (dd, J = 9.36, 16.23 Hz, 1H), 3.55 (dd, J = 9.90, 16.20 Hz, 1H);

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)-4-hydroxybenzamide

(Compound 15); Mass Spectrum: m/e m<sup>+</sup> 401.8, m<sup>-</sup> 400.0; NMR Spectrum (DMSO): δ:

8.75 (m, 1H), 7.76 (d, J = 8.66 Hz, 2H), 7.39 (s, 5H), 6.84 (d, J = 8.66 Hz, 2H), 5.02 (m, 1H), 4.55 (s, 2H), 4.13 (m, 2H), 3.77 (m, 1H), 3.53 (m, 1H);

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)-3-hydroxybenzamide (Compound 16); Mass Spectrum: m/e m<sup>+</sup> 402.0, m<sup>-</sup> 400.0; NMR Spectrum (CD<sub>3</sub>OD): 7.68 (m, 1H), 7.40 (m, 8H), 5.16 (dd, J = 4.21, 9.15 Hz, 1H), 4.50 (s, 2H), 4.16 (s, 2H), 3.84 (dd, J = 3.96, 16.20 Hz, 1H), 3.55 (dd, J = 8.91, 21.99 Hz, 1H);

N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)thiophene-2-carboxamide (Compound 17); Mass Spectrum m/e: m<sup>+</sup> 392.2, m<sup>-</sup> 390.2; NMR Spectrum (DMSO): δ: 9.04 (d, J = 8.16 Hz, 1H), 8.87 (m, 1H), 7.81 (m, 2H), 7.39 (m, 5H), 7.19 (m, 1H), 5.01 (m, 1H), 4.56 (s, 2H), 4.14 (m, 2H), 3.77 (dd, J = 3.46, 16.23 Hz), 3.51 (dd, J = 9.15, 15.93 Hz);

N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)thiophene-3-carboxamide (Compound 18); Mass Spectrum: m/e m<sup>+</sup> 392.0, m<sup>-</sup> 390.2; NMR Spectrum (DMSO): δ: 8.58 (m, 2H), 8.19 (dd, J = 0.99, 4.95 Hz, 1H) 7.62 (m, 1H), 7.53 (dd, J = 0.99, 4.95 Hz, 1H), 7.39 (s, 5H), 5.01 (m, 1H), 4.56 (s, 2H), 4.14 (d, J = 5.44 Hz, 2H), 3.76 (dd, J = 3.46, 12.87 Hz, 1H), 3.51 (dd, J = 9.40, 14.60 Hz, 1H);

*N*-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)quinoline-3-carboxamide (Compound 19); Mass Spectrum: m/e m<sup>+</sup> 436.89; <sup>1</sup>H-NMR (300MHz, CDCl<sub>3</sub>, δ ppm): 9.20 (m, 1H), 8.77 (m, 1H), 8.02 (t, J = 9.5Hz, 2H), 7.84 (t, J = 7.3Hz, 1H), 7.65 (t, J = 7.3Hz, 1H), 7.43 (m, 2H), 7.34 (m, 3H), 5.23 (m, 1H), 4.18 (m, 2H), 3.83 (m, 1H), 3.46 (m, 1H);

N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)biphenyl-4-ylcarboxamide (Compound 20); NMR Spectrum (DMSO): δ: 9.05 (d, J = 8.17 Hz, 1H), 8.82 (t, J = 5.69 Hz, 1H), 7.98 (m, 2H), 7.76 (m, 4H), 7.49 (m, 2H), 7.36 (m, 6H), 5.09 (m, 1H), 4.56 (s,2H), 4.14 (m, 2H), 4.04 (m, 2H), 3.79 (m, 1H), 3.58 (m, 1H);

<u>N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)quinoline-2-carboxamide</u> (Compound 21); Mass Spectrum m/e m<sup>+</sup> 436.2, m<sup>-</sup> 435.0, <sup>1</sup>H-NMR (300MHz, DMSOde, δ ppm) 9.51 (d, J = 9.6Hz, 1H), 8.84 (t, J = 6.6Hz, 1H), 8.63 (d, J = 9.33Hz, 1H), 8.19 (m, 3H), 7.90 (m, 1H), 7.75 (m, 1H), 7.38 (m, 5H), 5.18 (m, 1H), 4.58 (dd, J = 15.1Hz, 19.4Hz, 2H), 4.14 (d, J = 6.3Hz, 2H) 3.81 (d, 6.6Hz, 2H); and

4-benzoyl-N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)benzamide (Compound 22); Mass Spectrum: m/e m<sup>+</sup> 490.4, m<sup>-</sup> 488.2; NMR Spectrum (DMSO): δ: 9.24 (m, 1H), 8.87 (m, 1H), 8.04 (d, J = 8.41 Hz, 2H), 7.85 (d, J = 8.41 Hz, 2H), 7.75 (m, 3H), 7.59 (m, 2H), 7.41 (s, 5H), 5.10 (m, 1H), 4.60 (s, 2H), 4.16 (m, 2H), 3.81 (m, 1H), 3.57 (m, 1H).

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# EXAMPLE 4 N-(2-Benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)nicotinamide (Compound 23)

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A mixture comprised of 2*R*-amino-3-benzylsulfonyl-*N*-cyanomethylpropionamide methanesulfonate salt (377 mg, 1 mmol), prepared as in Reference 5, EDCI (211 mg, 1.1 mmol), HOBt (230 mg, 1.5 mmol), nicotinic acid (123 mg, 1 mmol), and anhydrous dichloromethane (4 mL) was treated with *N*-methylmorpholine (0. 242mL, 2.2 mmol), stirred for 16 hours and then concentrated. The residue was partitioned between ethyl acetate (150 mL) and water (10 mL) and the ethyl acetate layer was separated and washed with 1 N hydrochloric acid, water, sodium bicarbonate solution, water and brine, dried (MgSO<sub>4</sub>), filtered and concentrated. The residue was stirred vigorously in diethyl ether and a resulting precipitate was collected by filtration and dried under high vacuum to provide *N*-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)nicotinamide (236 mg, 0.61 mmol). Mass Spectrum: m/e 387.04. NMR Spectrum (DMSO): δ: 9.23 (d, J = 7.92 Hz, 1H), 9.04 (s, 1H), 8.89 (m, 1H), 8.75 (m, 1H), 8.21 (d, J = 7.18 Hz, 1H), 7.56 (m, 1H), 7.40 (s, 5H), 5.08 (m, 1H), 4.60 (s, 2H), 4.16 (m, 2H), 3.82 (m, 1H), 3.54 (m, 1H).

Proceeding as in Example 4 provided N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)isonicotinamide (Compound 24); Mass Spectrum: m/e m<sup>+</sup> 386.6, m<sup>-</sup> 385.2; NMR Spectrum (DMSO):  $\delta$ : 9.32 (d, J = 7.92 Hz, 1H), 8.90 (m, 1H), 8.79 (m, 2H), 7.80 (m, 2H), 7.42 (s, 5H), 5.08 (m, 1H), 4.60 (s, 2H), 4.17 (m, 2H), 3.83

(m, 1H), 3.56 (m, 1H);

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#### **EXAMPLE 5**

N-(2-Benzylsulfonyl-1*R*-cyanomethylcarbamoylethylmorpholine-4-carboxamide (Compound 25)

A solution comprised of 2R-amino-3-benzylsulfanyl-N-

cyanomethylpropionamide *para*-toluenesulfonate salt (15 g, 35.5 mmol), prepared as in Reference 4, in anhydrous dichloromethane (200 mL) was cooled in an ice bath and then treated with morpholin-4-ylcarbonyl chloride (5.8 mL, 49.7 mmol) and *N*-methylmorpholine (11.7 mL, 106.5 mmol). The mixture was stirred at ambient temperature for 16 hours and then diluted with dichloromethane (400 mL). The dilution was washed with water, 1 N hydrochloric acid, water, sodium bicarbonate solution, water and brine, dried (MgSO<sub>4</sub>), filtered and concentrated. Product was purified from the residue by elution on silica gel chromatography using dichloromethane followed by 1:1 dichloromethane: ethyl acetate. The purified product was stirred vigorously under ethyl acetate and diethyl ether and a resulting precipitate was collected by filtration to provide *N*-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethyl-morpholine-4-carboxamide (8.5 g, 23.1 mmol).

A solution comprised of *N*-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethyl-morpholine-4-carboxamide (6 g, 16.5 mmol) in methanol (460 mL) was treated with Oxone<sup>®</sup> (15.3 g, 24.8 mmol) in water (460 mL) and the reaction mixture was stirred at 25° C for 30 minutes. The reaction mixture then was diluted with cold water and the product was extracted with ethyl acetate. The extracts were dried and concentrated.

The residue was dissolved in ethyl acetate and the product was crystallized from solution to provide N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethylmorpholine-4-carboxamide (3.76 g 9.53 mmol). Mass Spectrum: m/e 394.91; NMR Spectrum (DMSO):  $\delta$ : 8.67 (t, J = 5.45 Hz, 1H); 7.39 (m, 5H), 7.12 (d, J = 8.17 Hz, 1H), 4.72 (td, J = 9.33 Hz, 3.71 Hz, 1H), 4.51 (s, 2H), 4.12 (d, J = 5.69 Hz, 2H), 3.61 (dd, J = 3.71, 15.9 Hz, 1H), 3.55 (t, J = 4.70 Hz, 4H), 3.39 (dd, J = 9.16, 15.9 Hz, 1H), 3.30 (m, 4H).

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Proceeding as in Example 5 provided <u>N-(2-benzylsulfonyl-1R-cyanomethylcarbamoylethyl)-3-methoxybenzamide</u> (Compound 26); Mass Spectrum: m/e 415.77; NMR Spectrum (CDC1<sub>3</sub>): 7.31 - 7.44 (m, 10H), 7.04 (m, 1H), 5.12 (m, 1H), 4.38 (dd, J = 7.9, 14.0 Hz, 2H), 4.11 (m, 2H), 3.81 (s, 3H), 3.63 (dd, J = 6.19, 11.76 Hz, 1H); 3.40 (dd, J = 5.45, 14.86 Hz, 1H).

#### **EXAMPLE 6**

Ethyl 4-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethylcarbamoyl)piperazine-1carboxylate (Compound 27),

A stock of 3-benzylsulfanyl-N-cyanomethyl-2R-isocyantopropionamide (3 mL), prepared as in Reference 6, was diluted with dichloromethane (20 mL) and the mixture was treated with N-ethoxycarbonylpiperazine (0.69 mL, 2 mmol) and stirred for 16 hours. The mixture then was concentrated and partitioned between ethyl acetate and water. The organic phase was washed with water, 1 N hydrochloric acid, water, sodium

bicarbonate solution, water and brine, dried (MgSO<sub>4</sub>), filtered and concentrated. Product was purified from the residue by elution on silica gel chromatography using 5% methanol in dichloromethane to provide ethyl 4-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethyl-carbamoyl)piperazine-1-carboxylate (382 mg, 0.65 mmol).

A solution comprised of ethyl 4-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethyl-carbamoyl)piperazine-1-carboxylate (0.187 g, 0.43 mmol) in methanol (4 mL) was treated with Oxone<sup>®</sup> (0.396 g, 0.65 mmol) in water (4 mL) and the reaction mixture was stirred at 25° C for 3 hours. The reaction mixture then was diluted with cold water and the product was extracted with ethyl acetate. The extracts were dried and concentrated. The residue was dissolved in ethyl acetate and the product was crystallized from solution to provide ethyl 4-2-enzylsulfonyl-1*R*-cyanomethylcarbamoylethylcarbamoyl)piperazine-1-carboxylate (0.159 0.34 mmol). Mass Spectrum: m/e m<sup>+</sup> 466.0, m<sup>-</sup> 464.2. NMR Spectrum (DMSO): δ: 8.67 (t, J = 5.44, Hz, 1H), 7.40 (s, 5H), 7.18 (d, J = 7.92 Hz, 1H), 4.74 (m, 1H), 4.53 (m,2H), 4.13 (m, 2H), 4.06 (q, J = 6.93 Hz, 2H), 3.66 (m, 1H), 3.44 (m, 1H), 3.35 (m, 8H), 1.19 (t, J = 6.93, Hz, 3H).

The following compounds of Formula I were provided by proceeding as in Example 6:

# tert-butyl 4-(2-benzylsulfonyl-1R-

cyanomethylcarbamoylethylcarbamoyl)piperazine-1-carboxylate (Compound 28); Mass Spectrum: m/e m<sup>+</sup> 493.8, m<sup>-</sup> 492.2; NMR Spectrum (DMSO): δ: 8.66 (m, 1H), 7.40 (s, 5H), 7.17 (m, 1H), 4.73 (m, 1H), 4.52 (s, 2H), 4.13 (m, 2H), 3.62 (m, 1H), 3.24 - 3.48 (m, 9H), 1.41 (s, 9H); and

N-(2-benzylsulfonyl-1*R*-cyanomethylcarbamoylethyl)-4-fur-2-ylcarbonylpiperazine-1-carboxamide (Compound 29); Mass Spectrum: m/e m<sup>+</sup> 488.4, m<sup>-</sup> 486.2; NMR Spectrum (DMSO): δ: 8.69 (t, J = 5.44 Hz, 1H), 7.86 (m, 1H), 7.40 (s, 5H), 7.03 (d, J = 3.22 Hz, 1H), 6.64 (dd, J = 1.73, 1.73 Hz, 1H), 4.74 (m, 1H), 4.54 (s, 2H), 4.14 (d, J = 5.44 Hz, 2H), 3.67 (m, 4H), 3.45 (m, 4H).

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# **EXAMPLE 7**

N-[1R-Cyanomethylcarbamoyl-2-(2-nitrobenzylsulfonyl)ethyl]morpholine-4-carboxamide (Compound 30),

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A mixture comprised of N-(2-tert-butyldisulfanyl-1R-cyanomethylcarbamoylethyl)morpholine-4-carboxamide (560 mg, 1.6 mmol), provided as in Reference 8, triscarboxyethyl phosphine (550 mg, 1.9 mmol) and DMF (4.5 mL) was treated with 4M aqueous potassium hydroxide (2 mL) with stirring at 23° C. The mixture was stirred for 3 hours under a nitrogen atmosphere and then treated with 2-nitrobenzyl bromide (830 mg, 3.8 mmol). The mixture was stirred for 16 hours and then diluted with ethyl acetate (200 ml). The organic phase was separated, sequentially washed with brine, saturated sodium bicarbonate and brine, dried (MgSO<sub>4</sub>) and concentrated under reduced pressure. The residue was dissolved in 1:1 ethyl acetate/hexane and product was crystallized from solution to provide N-[1R-cyanomethylcarbamoyl-2-(2-nitrobenzylsulfanyl)ethyl|morpholine-4-carboxamide (478 mg) as a colorless solid. Mass Spectrum: m/e 399.2 (theory 398). NMR Spectrum (DMSO-d<sub>6</sub>) δ 8.79 (t. J = 5.1 Hz, 1H, 8.69 (d, J = 8.1 Hz, 1H), 7.97 (d, J = 8.1 Hz, 1H), 7.86 (d, J = 8.4 Hz, 1Hz)2H), 7.58 - 7.65 (m, 2H), 7.43-7.55 (m, 4H), 4.62 (ddd, J = 13.6, 9.2, 5.1 Hz, 1H), 4.12 (d, J = 5.5 Hz, 2H), 4.06 (d, J = 3.0 Hz, 2H), 2.87 (dd, J = 13.5, 5.1, 1H), 2.76 (dd, J = 10.5, 1.5)13.6, 9.5 Hz, 1H).

A solution comprised of N-[1R-cyanomethylcarbamoyl-2-(2-nitrobenzylsulfanyl)-ethyl]morpholine-4-carboxamide (50 mg, 0.13 mmol) in methanol (5 mL) was treated with Oxone<sup>®</sup> (105 g, 0.17 mmol) in water (1 mL) and the

reaction mixture was stirred at  $25^{\circ}$  C for 16 hours. The reaction mixture then was diluted with cold water and the product was extracted with ethyl acetate. The extracts were dried and concentrated. The residue was dissolved in ethyl acetate and product was crystallized from solution to provide N-[1R-cyanomethylcarbamoyl-

5 2-(2-nitrobenzylsulfonyl)ethyl]morpholine-4-carboxamide (45 g, 0.1 mmol). Mass Spectrum: m/e 431 (theory 430). NMR Spectrum (DMSO-d<sub>6</sub>) δ 8.99 (d, 1H, J = 8.1 Hz), 8.83 (t, J = 5.1 Hz, 1H), 8.05 (d, J = 8.1 Hz, 1H), 7.86 (d, J = 8.1 Hz, 2H), 7.76 (d, J = 7 Hz, 1H), 7.64-7.69 (m, 2H), 7.46 - 7.61 (m, 3H), 5.08 (s, 2H), 5.03 (t, J = 6.6 Hz, 1H), 4.13 (s, 2H), 3.83 (d, J = 14.3 Hz, 1H), 3.66 (dd, J = 14.3, 9.9 Hz, 1H).

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The following compounds of Formula I were provided by proceeding as in Example 7:

*N*-[2-(4-chlorobenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]benzamide (Compound 31); EI MS (M+ = 420.0); NMR (DMSO): δ 8.96 (d, 1H, J = 8.1 Hz), 8.79 (t, 1H, J = 5.5Hz), 7.87 (d, 2H, J = 6.2Hz), 7.39 - 7.56 (m, 7H), 5.03 (t, 1H, J = 6.6 Hz), 4.59 (s, 2H), 4.12 (d, 2H, J = 5.5Hz), 3.78 (dd, 1H, J = 14.3, 2.9Hz), 3.54 (dd, 1H, J = 14.3, 9.9 Hz);

N-[1R-cyanomethylcarbamoyl-2-(2-methylbenzylsulfonyl)ethyl]benzamide (Compound 32); EI MS (M+ = 400.2); NMR (DMSO):  $\delta$  9.04 (d, 1H, J = 8.2 Hz), 8.85 (t, 1H, J = 5.4Hz), 7.90 (d, 2H, J = 8.4 Hz), 7.47 - 7.61 (m, 3H), 7.18 - 7.34 (m, 4H), 5.11 (t, 1H, J = 9.7 Hz), 4.65 (d, 1H, J = 13.6 Hz), 4.57 (d, 1H, J = 13.6 Hz), 4.16 (d, 2H, J = 5.9 Hz), 3.87 (dd, 1H, J = 14.3, 3.2 Hz), 3.68 (dd, 1H, J = 14.6, 9.6 Hz), 2.33 (s, 3H);

N-[1R-cyanomethylcarbamoyl-2-(4-

30 <u>trifluoromethylbenzylsulfonyl)ethyl]benzamide</u> (Compound 34); EI MS (M+ = 454.0);

NMR (DMSO):  $\delta$  8.99 (d, 14, J = 8.2 Hz), 8.81 (t, 1H, J = 5.7 Hz), 7.88 (d, 2H, J = 6.7 Hz), 7.79 (d, 2H, J = 8.2 Hz), 7.64 (d, 2H, J = 8.2 Hz), 7.48 - 7.58 (m, 3H), 5.08 (t, 1H, J = 8.8 Hz), 4.74 (s, 2H), 4.14 (d, 2H, J = 6.2 Hz), 3.84 (dd, 1H, J = 14.9, 3.5 Hz), 3.60 (dd, 1H, J = 14.3, 9.6 Hz);

N-[1R-cyanomethylcarbamoyl-2-(4-

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<u>trifluoromethoxybenzylsulfonyl)ethyl]benzamide</u> (Compound 35); EI MS (M+ = 470.2); NMR (DMSO):  $\delta$  9.00 (d, 1H, J = 8.24 Hz), 8.82 (t, 1H, J = 5.6 Hz), 7.89 (d, 2H, J = 9.7 Hz), 7.40 - 7.58 (m, 7H), 5.04 - 5.11 (m, 1H), 4.65 (s, 2H), 4.15 (s, 1H), 3.82 (dd, 1H, J = 14.3, 3.2Hz), 3.59 (dd, 1H, J = 12.0, 9.7 Hz);

N-[1R-cyanomethylcarbamoyl-2-(4-

trifluoromethylsulfanylbenzylsulfonyl)ethyl]-benzamide (Compound 36); EI MS (M+ = 486.2); NMR (DMSO):  $\delta$  9.02 (d, 1H, J = 7.9 Hz), 8.82 (t, 1H, J = 5.7 Hz), 7.89 (d, 2H, J = 8.4 Hz), 7.76 (d, 2H, J = 8.2 Hz), 7.47 - 7.61 (m, 5H), 5.07 (t, 1H, J = 9.4 Hz), 4.70 (s, 2H), 4.15 (d, 2H, J = 5.7 Hz), 3.84 (dd, 1H, J = 14.6, 3.5 Hz), 3.61 (dd, 1H, J = 14.1, 94. Hz);

N-[1R-cyanomethylcarbamoyl-2-(3-nitrobenzylsulfonyl)ethyl]benzamide (Compound 37); EI MS (M+ = 431.0); NMR (DMSO): δ 8.99 (d, 1H, J = 8.0 Hz), 8.82 (t, 1H, J = 5.7 Hz), 8.32 (s, 1H), 8.27 (d, 1H, J = 8.2 Hz), 7.88 (m, 3H), 7.73 (t, 1H, J = 3.1 Hz), 7.47 - 7.60 (m, 3H), 5.06 (t, 1H, J = 11.1 Hz), 4.82 (s, 2H), 4.14 (s, 2H), 3.86 (dd, 1H, J = 14.4, 3.2 Hz), 3.62 (dd, 1H, J = 14.6, 9.4 Hz);

N-(1R-cyanomethylcarbamoyl-2-pyrid-2-ylmethylsulfonylethyl)benzamide (Compound 38); Mass Spectrum: m/e 387.03 (theory 386.97); NMR Spectrum (DMSO): 9.01 (d, J = 9.1 Hz, 1H), 8.79 (t, J = 6.3 Hz, 1H), 8.57 (d, J = 4.4 Hz, 1H), 7.95 - 7.8 (m, 3H), 7.6 - 7.35 (m, 5H), 5.11 (m, 1H), 4.78 (d, J = 15.4 Hz, 1H), 4.69 (d, J = 15.4 Hz, 1H), 4.14 (d, J = 6.1 Hz, 2H), 3.86 (dd, J = 3.3 and 16 Hz, 1H), 3.65 (dd, J = 11 and 16 Hz, 1H) ppm;

4.67 (s, 2H), 4.13 (d, J = 6.6 Hz, 2H), 3.84 (dd, J = 3.9 and 16 Hz, 1H), 3.59 (dd, J = 16 and 10 Hz, 1H) ppm;

N-[1R-cyanomethylcarbamoyl-2-(3,4-dichlorobenzylsulfonyl)ethyl]benzamide (Compound 40); EI MS (M+ = 454.0); NMR (DMSO): δ 8.97 (d, 1H, J = 8.1 Hz), 8.80 (t, 1H, J = 5.9 Hz), 7.86 (d, 2H, J = 7.3 Hz), 7.66 - 7.70 (m, 2H), 7.46 - 7.58 (m, 4H), 5.04 (t, 1H, J = 7.3 Hz), 4.64 (t, 2H, J = 14.3 Hz), 4.13 (s, 2H), 3.81 (d, 1H, J = 14.7 Hz), 3.56 (dd, 1H, J = 14.3, 9.2 Hz);

N-[1R-cyanomethylcarbamoyl-2-(3-methylbenzylsulfonyl)ethyl]benzamide (Compound 41); EI MS (M+ = 400.0); NMR (DMSO):  $\delta$  9.00 (d, 1H, J = 8.4 Hz), 8.81 (t, 1H, J = 5.7 Hz), 7.89 (d, 2H, J = 6.6 Hz), 7.47 - 7.59 (m, 3H), 7.25 (d, 1H, J = 6.2 Hz), 7.17 (brS, 3H), 5.02 - 5.06 (m, 1H), 4.51 (s, 2H), 4.13 (s, 2H), 3.76 (d, 1H, J = 14.3 Hz), 3.53 (dd, 1H, J = 13.2, 9.5 Hz), 2.28 (s, 3H);

N-[1R-cyanomethylcarbamoyl-2-(4-nitrobenzylsulfonyl)ethyl]benzamide (Compound 42); NMR (DMSO):  $\delta$  8.98 (d, 1H, J = 7.7 Hz), 8.80 (t, 1H, J = 4.8 Hz), 8.25 (d, 2H, J = 6.6 Hz), 7.86 (d, 2H, J = 7.0 Hz), 7.67 (d, 2H, J = 7.0 Hz), 7.45 - 7.58 (m, 3H), 5.04 (t, 1H, 7.7 Hz), 4.80 (s, 2H), 4.12 (s, 2H), 3.84 (d, 1H, J = 16.8 Hz), 3.60 (dd, 1H, J = 13.6, 9.5 Hz);

N-[1R-cyanomethylcarbamoyl-2-(2-nitrobenzylsulfonyl)ethyl]benzamide (Compound 43); EI MS (M+ = 431.2), Theory = 430; NMR (DMSO): δ 8.99 (d, 1H, J = 8.1 Hz), 8.83 (t, 1H, J = 5.1 Hz), 8.05 (d, 1H, J = 8.1 Hz), 7.86 (d, 2H, J = 8.1 Hz), 7.76 (d, 1H, J = 7.0 Hz), 7.64 - 7.69 (m, 2H), 7.46 - 7.61 (m, 3H), 5.08 (s, 2H), 5.03 (t, 1H, J = 6.6 Hz), 4.13 (s, 2H), 3.83 (d, 1H, J = 14.3 Hz), 3.66 (dd, 1H, J = 14.3, 9.9 Hz);

# N-[1R-cyanomethylcarbamoyl-2-(3-

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25 <u>trifluoromethylbenzylsulfonyl)ethyl]benzamide</u> (Compound 44); EI MS (M+ = 454.1), Theory = 453; NMR (DMSO): δ 8.98 (d, 1H, J = 7.3Hz), 8.79 (t, 1H, J = 5.1 Hz), 7.85 (d, 2H, J = 7.0 Hz0, 7.63 - 7.73 (M, 4H), 7.44 - 7.54 (m, 3H), 5.04 (t, 1H, J = 5.1 Hz), 4.71 (s, 2H), 4.11 (s, 2H), 3.81 (d, 1H, J = 13.9 Hz), 3.56 (dd, 1H, J = 13.9, 9.2. Hz);

N-[1R-cyanomethylcarbamoyl-2-(3-

trifluoromethoxybenzylsulfonyl)ethyl]benzamide (Compound 45); EI MS (M+ = 470.0), Theory = 469; NMR (DMSO):  $\delta$  9.00 (d, 1H, J = 8.1Hz), 8.81 (t, 1H, J = 5.9 Hz), 7.87 (d, 2H, J = 7.3 Hz), 7.40 - 7.56 (m, 7H), 5.05 (t, 1H, J = 5.9 Hz), 4.67 (s, 2H), 4.13 (d, 2H, J = 5.5 Hz), 3.81 (d, 1H, J = 14.3 Hz), 3.57 (dd, 1H, J = 14.3, 9.9 Hz);

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N-(1R-cyanomethylcarbamoyl-2-pyrid-3-ylmethylsulfonylethyl)benzamide (Compound 46); Mass Spectrum: m/e 387.02 (theory 386.97); NMR Spectrum (DMSO): 8.99 (d, J = 9.1 Hz, 1H), 8.82 (t, J = 6.1 Hz, 1H), 8.62 - 8.54 (m, 2H), 7.94 - 7.8 (m, 3H), 7.62 - 7.4 (m, 4H), 5.12 - 5.0 (m, 1H), 4.66 (s, 2H), 4.14 (d, J = 6.6 Hz, 2H), 3.83 (dd, J = 3.9 and 16.2 Hz, 1H), 3.59 (dd, J = 10.7 and 16 Hz, 1H) ppm;

N-[1R-cyanomethylcarbamoyl-2-(2-methylbenzylsulfonyl)ethyl]morpholine-4-carboxamide (Compound 47); Mass Spectrum: m/e 408.6 (theory 408.48); NMR Spectrum (DMSO): 8.70 (t, J = 6.0 Hz, 1H), 7.35 - 7.1 (m, 5H), 4.84 - 4.74 (m, 1H), 4.60 (d, J = 15 Hz, 1H), 4.52 (d, J = 15 Hz, 1H), 4.18 (d, J = 17 Hz, 1H), 4.10 (d, J = 17 Hz, 1H), 3.70 (dd, J = 3.8 and 15.9 Hz, 1H), 3.6 - 3.5 (m, 5H), 3.4 - 3.25 (m, 4H), 2.35 (s, 3H) ppm;

N-(1R-cyanomethylcarbamoyl)-2-pentafluorobenzylsulfonylethyl)benzamide (Compound 48); MS m/z = 476 (M+1); NMR (DMSO):  $\delta$  9.0 (d, J = 8 Hz, 1H), 8.8 (ddJ = 5.5, 3.6, 1H), 7.8 (dJ = 7.3, 2H), 7.5 (m, 3H), 4.8 (ddJ = 17, 6, 2H), 4.14 (s, 1H), 4.11 (s, 1H), 4.02 (s, 1H), 4.01 (s, 1H), 3.99 (dd, 3, 15, 1H), 3.78 (dd (10, 15, 1H) 5.0 (ddd, 3, 10, 8, 1H);

N-(1R-cyanomethylcarbamoyl-2-naphth-2-ylbenzylsulfonylethyl)benzamide (Compound 49); MS m/z = 436 (M+1); NMR (DMSO):  $\delta$  8.99 (d, 8 Hz, 1H), 8.8 (dd, 3,5,1H), 7.9 (m, 6H), 7.5 (m, 6H), 5.05 (m, 1H), 4.7 (s, 2H), 4.1 (d, 5, 2H), 3.8 (dd, 3,14, 1H), 3.55 (dd, 10, 14, 1H);

*N*-[2-(2-chlorobenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]benzamide

2H), 3.84 (dd, J = 3.6 and 11.5 Hz, 1H), 3.67 (dd, J = 8.1 and 11 Hz, 1H) ppm;

(Compound 51); Mass Spectrum: m/e 420.3 (theory 419.88); NMR Spectrum (DMSO): 9.17 (d, J = 9.1 Hz, 1H), 8.94 (t, J = 5.8 Hz, 1H), 7.98 - 7.9 (m, 2H), 7.6 - 7.32 (m, 7H), 5.15 - 5.05 (m, 1H), 4.75 (s, 2H), 4.14 (d, J = 6.3 Hz, 2H), 3.82 (d, J = 6.9 Hz, 2H) ppm;

N-[2-(2-bromobenzylsulfonyl)-1R-cyanomethylcarbamoylethyl]benzamide (Compound 53); Mass Spectrum: m/e 462.2 (theory 464.34); NMR Spectrum (DMSO): 9.03 (d, J = 8.2 Hz, 1H), 8.84 (t, J = 5.4 Hz, 1H), 7.90 (d, J = 6.9 Hz, 2H),7.75 - 7.25 (m, 7H), 5.17 - 5.05 (m, 1H), 4.75 (s, 2H), 4.15 (d, J = 5.7 Hz, 2H), 3.85 (dd, J = 3.4 and 14.1 Hz, 1H), 3.73 (dd, J = 14.6 and 9.4 Hz, 1H) ppm;

20 <u>N-[2-(4-tert-butylbenzylsulfonyl)-1R-cyanomethylcarbamoylethyl]benzamide</u> (Compound 55); Mass Spectrum: m/e 442.10 (theory 441.55); NMR Spectrum (DMSO): 8.99 (d, J = 9.1 Hz, 1H), 8.81 (t, J = 6.3 Hz, 1H), 7.94 - 7.85 (m, 2H), 7.62 - 7.44 (m, 3H), 7.41 (d, J = 9 Hz, 2H), 7.30 (d, J = 9 Hz, 2H), 5.1 - 5.02 (m, 1H), 4.51 (s, 2H), 4.13 (d, J = 6.6 Hz, 2H), 3.77 (dd, J = 3.9 and 16 Hz, 1H), 3.54 (dd, J = 7.8 and 16 Hz, 1H), 1.26 (s, 9H) ppm;

N-[1R-cyanomethylcarbamoyl-

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2-(2-trifluoromethylbenzylsulfonyl)ethyl]benzamide (Compound 56); Mass Spectrum: M + 1 = 454; NMR 270 MHz (DMSO): 8.8 (m, 2H) 8.2 - 7.8 (m, 7H) 5.7 (ddd, 8,8,4, 1H) 5.2 (S,2H) 4.6 (DD, 5,3, 2H) 4.4 (dd 14, 4, 1H) 4.2 (dd 14, 8, 1H);

N-[1R-cyanomethylcarbamoyl)-2-(2-cyanobenzylsulfonyl)ethyl]benzamide (Compound 57); Mass Spectrum: M + 1 = 454; NMR 270 MHz. (acetone): 8 - 7.4 (m,

9H) 5.2 (m, 1H) 4.8 (S,2H) 4.2 (s, 2H) 4.0 (dd 14, 4, 1H) 3.8 (ddd 14, 9, 2,1H);

N-[2-(4-bromobenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]benzamide

(Compound 58); Mass Spectrum: (M+H<sup>+</sup>) 464, 466; (M-H<sup>+</sup>) 462, 464;

N-[2-(3-chlorobenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]benzamide

(Compound 59); Mass Spectrum: (M+H<sup>+</sup>) 420, 422; (M-H<sup>+</sup>) 418, 420; <sup>1</sup>H NMR: (DMSO) 8.98 (d, J=8.2Hz, 1H), 8.81 (t, J=6Hz, 1H), 7.88 (m, 2H), 7.60-7.35 (m, 7H), 5.05 (m, 1H), 4.62 (s, 2H), 4.14 (m, 2H), 3.81 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.56 (dd, , J=9.4Hz, J=14.5Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(3-fluorobenzylsulfonyl)ethyl]benzamide (Compound 60); Mass Spectrum: (M+H<sup>+</sup>) 404; (M-H<sup>+</sup>) 402; <sup>1</sup>H NMR: (DMSO) 8.99 (d, J=7.9Hz, 1H), 8.81 (t, J=6Hz, 1H), 7.87 (m, 2H), 7.60-7.40 (m, 4H), 7.28-7.20 (m, 3H), 5.05 (m, 1H), 4.62 (s, 2H), 4.13 (m, 2H), 3.81 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.56 (dd, J=9.4Hz, J=14.5Hz, 1H);

#### N-[2-(3-chloro-2-fluorobenzylsulfonyl)-1R-

- 15 <u>cyanomethylcarbamoylethyl]benzamide</u> (Compound 61); Mass Spectrum: (M+H<sup>+</sup>) 438, 440; (M-H<sup>+</sup>) 436, 438; <sup>1</sup>H-NMR: (DMSO,  $\delta$ ) 9.00 (d, J = 8.4 Hz, 1H), 8.84 (t, J = 5.4Hz, 1H), 7.88 (d, J = 6.8 Hz, 2H), 7.65 7.42 (m, 5H), 7.28 (t, J = 7.7 Hz, 1H), 5.08 (m, 1H), 4.72 (s, 2H), 4.15 (m, 2H), 3.90 (dd, J = 3 Hz, J = 14.4 Hz, 1H), 3.70 (dd, J = 9.9 Hz, J = 14.4 Hz, 1H);
- 20 <u>N-[1-cyanomethylcarbamoyl-2-(2-fluoro-3-methylbenzylsulfonyl)ethyl]benzamide</u> (Compound 62); Mass Spectrum: (M+H<sup>+</sup>) 422; (M-H<sup>+</sup>) 420; <sup>1</sup>H NMR: (DMSO) 8.99 (d, J=7.9Hz, 1H), 8.81 (t, J=6Hz, 1H), 7.88 (m, 2H), 7.60-7.45 (m, 3H), 7.37-7.28 (m, 3H), 5.07 (m, 1H), 4.65 (s, 2H), 4.14 (m, 2H), 3.87 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.70 (dd, , J=9.4Hz, J=14.5Hz, 1H);
- 25 <u>N-[1-cyanomethylcarbamoyl)-2-(2,5-difluorobenzylsulfonyl)ethyl]benzamide</u> (Compound 63); Mass Spectrum: (M+H<sup>+</sup>) 422; (M-H<sup>+</sup>) 420; <sup>1</sup>H-NMR: (DMSO,  $\delta$ ) 9.00 (d, J = 8.2 Hz, 1H), 8.84 (t, J = 5.6Hz, 1H), 7.87 (d, J = 8 Hz, 2H), 7.60 7.45 (m, 4H), 7.19 (t, J = 8 Hz, 1H), 5.10 (m, 1H), 4.68 (s, 2H), 4.15 (m, 2H), 3.90 (dd, J = 3.5 Hz, J = 14.4 Hz, 1H), 3.76 (dd, J = 9.9 Hz, J = 14.4 Hz, 1H);
- 30 <u>N-[1R-cyanomethylcarbamoyl)-2-(4-iodobenzylsulfonyl)ethyl]benzamide</u>
  (Compound 64); Mass Spectrum: (M+H<sup>+</sup>) 512; (M-H<sup>+</sup>) 510; <sup>1</sup>H NMR: (DMSO) 8.99

(d, J=7.9Hz, 1H), 8.81 (t, J=6Hz, 1H), 7.87 (m, 2H), 7.77 (d, J=8.2Hz, 2H), 7.57-7.46 (m, 3H), 7.19 (d, J=8.2Hz, 2H), 5.04 (m, 1H), 4.55 (s, 2H), 4.13 (m, 2H), 3.78 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.53 (dd, J=9.4Hz, J=14.5Hz, 1H);

N-[1R-cyanomethylcarbamoyl)-2-(3-iodobenzylsulfonyl)ethyl]benzamide (Compound 65); Mass Spectrum: (M+H<sup>+</sup>) 512; (M-H<sup>+</sup>) 510; <sup>1</sup>H NMR: (DMSO) 8.99 (d, J=8.2Hz, 1H), 8.80 (t, J=6Hz, 1H), 7.88 (m, 2H), 7.78-7.73 (m, 2H), 7.60-7.46 (m, 3H), 7.41 (d, J=7.7Hz, 1H), 7.20 (t, J=7.7Hz, 1H), 5.06 (m, 1H), 4.57 (s, 2H), 4.14 (m, 2H), 3.80 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.53 (dd, , J=9.9Hz, J=14.5Hz, 1H);

# N-[1R-cyanomethylcarbamoyl-2-(2-

- 10 <u>difluoromethoxybenzylsulfonyl)ethyl]benzamide</u> (Compound 66); Mass Spectrum:  $(M+H^+)$  452;  $(M-H^+)$  450;  $^1H$ -NMR: (DMSO,  $\delta$ ) 8.99 (d, J=8.2 Hz, 1H), 8.82 (t, J=5.5Hz, 1H), 7.89 (d, J=8.2 Hz, 2H), 7.60 7.44 (m, 5H), 7.29 (t, J=5.5 Hz, 1H), 7.26 (t, J=5.5 Hz, 1H) 7.13 (t,  $J_{H,F}=74$ Hz, 1H) 5.08 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.80 (dd, J=2.7 Hz, J=14.4 Hz, 1H), 3.76 (dd, J=9.7 Hz, J=14.4 Hz, 1H);
- 15 <u>N-[1R-cyanomethylcarbamoyl-2-(2,5-dichlorobenzylsulfonyl)ethyl]benzamide</u> (Compound 67); Mass Spectrum: (M+H<sup>+</sup>) 454, 456; (M-H<sup>+</sup>) 452, 454; <sup>1</sup>H NMR: (DMSO) 9.02 (d, J=8.4Hz, 1H), 8.85 (t, J=5.4Hz, 1H), 7.89 (m, 2H), 7.61-7.46 (m, 6H), 5.11 (m, 1H), 4.76 (s, 2H), 4.15 (m, 2H), 3.88 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.73 (dd, J=9.9Hz, J=14.5Hz, 1H);
- 20 N-[2-(3-bromobenzylsulfonyl)-1-cyanomethylcarbamoylethyl]benzamide (Compound 68); Mass Spectrum: (M+H<sup>+</sup>) 464, 466; (M-H<sup>+</sup>) 462, 464; <sup>1</sup>H-NMR: (DMSO, δ) 8.99 (d, J = 8.2 Hz, 1H), 8.80 (t, J = 5.6Hz, 1H), 7.87 (d, J = 8.2 Hz, 2H), 7.62 7.34 (m, 7H), 5.05 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.80 (dd, J = 3.2 Hz, J = 14.4 Hz, 1H), 3.56 (dd, J = 9.7 Hz, J = 14.4 Hz, 1H);
- 25 <u>N-[1R-cyanomethylcarbamoyl-2-(3-cyanobenzyl)ethyl]benzamide</u>
  (Compound 69); Mass Spectrum: (M+H<sup>+</sup>) 411; (M-H<sup>+</sup>) 409; <sup>1</sup>H NMR: (DMSO) 8.98
  (d, J=8.2Hz, 1H), 8.81 (t, J=5.4Hz, 1H), 7.90- 7.46 (m, 9H), 5.05 (m, 1H), 4.68 (s, 2H),
  4.14 (m, 2H), 3.82 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.58 (dd, J=9.4Hz, J=14.5Hz, 1H);
- N-[1R-cyanomethylcarbamoyl-2-(4-cyanobenzylsulfonyl)ethyl]benzamide

  (Compound 70); Mass Spectrum: (M+H<sup>+</sup>) 411; (M-H<sup>+</sup>) 409; ¹H NMR: (DMSO) 8.98

  (d, J=8.2Hz, 1H), 8.81 (t, J=5.4Hz, 1H), 7.91-7.85 (m, 4H), 7.61-7.46 (m, 5H), 5.06

(m, 1H), 4.74 (s, 2H), 4.13 (m, 2H), 3.83 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.58 (dd, J=9.4Hz, J=14.5Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(2-fluoro-6-

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nitrobenzylsulfonyl)ethyl]benzamide (Compound 71); Mass Spectrum: (M+H<sup>+</sup>) 449; (M-H<sup>+</sup>) 447; · <sup>1</sup>H NMR: (DMSO) 9.01 (d, J=8.2Hz, 1H), 8.87 (t, J=5.4Hz, 1H), 7.97-7.46 (m, 8H), 5.11-5.03 (m, 3H), 4.15 (m, 2H), 3.93 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.80 (dd, J=9.7Hz, J=14.5Hz, 1H);

*N*-[2-(2-bromo-5-fluorobenzylsulfonyl)-1*R*-

cyanomethylcarbamoylethyl]benzamide (Compound 72); Mass Spectrum: (M+H<sup>+</sup>) 482, 484; (M-H<sup>+</sup>) 480, 482; <sup>1</sup>H-NMR: (DMSO,  $\delta$ ) 9.02 (d, J = 7.9 Hz, 1H), 8.85 (t, J = 5.4Hz, 1H), 7.88 (d, J = 8.2 Hz, 2H), 7.74 (dd, J = 5.4 Hz, J = 8.9 Hz, 1H) 7.60 - 7.46 (m, 3H), 7.40 (dd, J = 3.2 Hz, J = 10.8 Hz, 1H) 7.25 (dt, J = 3.2 Hz, J = 8.5 Hz, 1H) 5.10 (m, 1H), 4.77 (s, 2H), 4.15 (m, 2H), 3.88 (dd, J = 3.7 Hz, J = 14.4 Hz, 1H), 3.73 (dd, J = 9.7 Hz, J = 14.4 Hz, 1H);

15  $N-[1R-cyanomethylcarbamoyl-2-(2,3-difluorobenzylsulfonyl)ethyl]benzamide (Compound 73); Mass Spectrum: (M+H<sup>+</sup>) 422; (M-H<sup>+</sup>) 420; <sup>1</sup>H-NMR: (DMSO, <math>\delta$ ) 9.00 (d, J = 8.2 Hz, 1H), 8.83 (t, J = 5.6Hz, 1H), 7.87 (d, J = 8.2 Hz, 2H), 7.60 - 7.22 (m, 6H), 5.08 (m, 1H), 4.72 (s, 2H), 4.15 (m, 2H), 3.89 (dd, J = 3.0 Hz, J = 14.4 Hz, 1H), 3.70 (dd, J = 9.9 Hz, J = 14.4 Hz, 1H);

*N*-[2-biphenyl-2-ylmethylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]benzamide (Compound 74); Mass Spectrum: (M+H<sup>+</sup>) 462; (M-H<sup>+</sup>) 460; <sup>1</sup>H-NMR: (DMSO, δ) 8.90 (d, J = 8.4 Hz, 1H), 8.78 (t, J = 5.4Hz, 1H), 7.83 (d, J = 7.9 Hz, 2H), 7.60 - 7.28 (m, 12H), 4.93 (m, 1H), 4.51 (s, 2H), 4.11 (m, 2H), 3.61 (dd, J = 3.2 Hz, J = 14.4 Hz, 1H), 3.52 (dd, J = 9.7 Hz, J = 14.4 Hz, 1H);

N-[1R-cyanomethylcarbamoyl)-2-(2,4-difluorobenzylsulfonyl)ethyl]benzamide (Compound 75); Mass Spectrum: (M+H<sup>+</sup>) 422; (M-H<sup>+</sup>) 420; <sup>1</sup>H NMR: (DMSO) 8.99 (d, J=8.2Hz, 1H), 8.83 (t, J=5.4Hz, 1H), 7.88 (m, 2H), 7.60-7.12 (m, 6H), 5.07 (m, 1H), 4.63 (s, 2H), 4.14 (m, 2H), 3.85 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.67 (dd, , J=9.5Hz, J=14.5Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(4-fluorobenzylsulfonyl)ethyl]benzamide (Compound 76); Mass Spectrum: (M+H<sup>+</sup>) 404; (M-H<sup>+</sup>) 402; <sup>1</sup>H NMR: (DMSO) 8.98

(d, J=8.2Hz, 1H), 8.80 (t, J=5.4Hz, 1H), 7.88 (m, 2H), 7.60-7.40 (m, 5H), 7.23 (t, J=8.9Hz, 2H), 5.04 (m, 1H), 4.58 (s, 2H), 4.13 (m, 2H), 3.78 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.54 (dd, J=9.5Hz, J=14.5Hz, 1H);

N-[1-R-cyanomethylcarbamoyl-2-(3,4-difluorobenzylsulfonyl)ethyl]benzamide (Compound 77); Mass Spectrum: (M+H<sup>+</sup>) 422; (M-H<sup>+</sup>) 420;

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N-[1R-cyanomethylcarbamoyl-2-(2,3,4-trifluorobenzylsulfonyl)ethyl]benzamide (Compound 78); Mass Spectrum: (M+H<sup>+</sup>) 440; (M-H<sup>+</sup>) 438;

*N*-[1*R*-cyanomethylcarbamoyl-2-(2,4,6-trifluorobenzylsulfonyl)ethyl]benzamide (Compound 79); Mass Spectrum: (M+H<sup>+</sup>) 440; (M-H<sup>+</sup>) 438; <sup>1</sup>H-NMR: (DMSO, δ) 9.01 (d, J = 8.2 Hz, 1H), 8.85 (t, J = 5.4Hz, 1H), 7.88 (d, J = 7.4 Hz, 2H), 7.60 - 7.46 (m, 3H), 7.31 (t, J = 8.7 Hz, 2H), 5.10 (m, 1H), 4.66 (s, 2H), 4.15 (m, 2H), 3.91 (dd, J = 2.5 Hz, J = 14.4 Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(2,4,5-trifluorobenzylsulfonyl)ethyl]benzamide (Compound 80); Mass Spectrum: (M+H<sup>+</sup>) 440; (M-H<sup>+</sup>) 438; <sup>1</sup>H NMR: (DMSO) 8.98 (d, J=8.2Hz, 1H), 8.83 (t, J=5.4Hz, 1H), 7.88 (m, 2H), 7.71-7.46 (m, 5H), 5.07 (m, 1H), 4.64 (s, 2H), 4.14 (m, 2H), 3.87 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.69 (dd, J=9.5Hz, J=14.5Hz, 1H);

*N*-[1*R*-cyanomethylcarbamoyl-2-(2,3,6-trifluorobenzylsulfonyl)ethyl]benzamide (Compound 81); Mass Spectrum: (M+H<sup>+</sup>) 440; (M-H<sup>+</sup>) 438; <sup>1</sup>H NMR: (DMSO) 9.01 (d, J=8.2Hz, 1H), 8.85 (t, J=5.4Hz, 1H), 7.88 (m, 2H), 7.66-7.46 (m, 4H), 7.29-7.20 (m, 1H), 5.11 (m, 1H), 4.76 (s, 2H), 4.15 (m, 2H), 3.96 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.78 (dd, J=9.5Hz, J=14.5Hz, 1H);

*N*-[2-(2-chloro-5-trifluoromethylbenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]-benzamide (Compound 82); Mass Spectrum: (M+H<sup>+</sup>) 487, 489; (M-H<sup>+</sup>) 485, 487; <sup>1</sup>H-NMR: (DMSO, δ) 9.04 (d, J = 8.2 Hz, 1H), 8.86 (t, J = 5.4Hz, 1H), 7.92 - 7.87 (m, 3H), 7.79 (s, 2H), 7.60 - 7.44 (m, 3H), 5.11 (m, 1H), 4.92 (d, J = 13.6 Hz, 1H), 4.86 (d, J = 13.6 Hz, 1H), 4.15 (m, 2H), 3.92 (dd, J = 3.2 Hz, J = 14.6 Hz, 1H), 3.75 (dd, J = 9.9 Hz, J = 14.4 Hz, 1H);

N-[2-(2,4-bistrifluoromethylbenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]benzamide (Compound 83); Mass Spectrum: (M+H<sup>+</sup>) 522; (M-H<sup>+</sup>) 520; <sup>1</sup>H NMR:
(DMSO) 9.04 (d, J=8.2Hz, 1H), 8.87 (t, J=5.4Hz, 1H), 8.17 (d, J=8.4Hz, 1H), 8.09 (s,

1H), 7.94-7.87 (m, 3H), 7.60-7.46 (m, 3H), 5.12 (m, 1H), 4.96 (d, J=14.3Hz, 1H), 4.88 (d, J=14.3Hz, 1H), 4.16 (m, 2H), 3.97 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.82 (dd, , J=9.5Hz, J=14.5Hz, 1H);

#### N-[1R-cyanomethylcarbamoyl-2-(2-fluoro-

5 6-trifluoromethylbenzylsulfonyl)ethyl]-benzamide (Compound 84); Mass Spectrum: (M+H<sup>+</sup>) 472; (M-H<sup>+</sup>) 470; <sup>1</sup>H-NMR: (DMSO, δ) 9.01 (d, J = 8.4 Hz, 1H), 8.85 (t, J = 5.5Hz, 1H), 7.87 (d, J = 7.4 Hz, 2H), 7.70 - 7.45 (m, 6H), 5.08 (m, 1H), 4.80 (s, 2H), 4.13 (m, 2H), 3.97-3.75 (m, 2H);

#### N-[1R-cyanomethylcarbamoyl-2-(2-fluoro-3-

trifluoromethylbenzylsulfonyl)ethyl]-benzamide (Compound 85); Mass Spectrum: (M+H<sup>+</sup>) 472; (M-H<sup>+</sup>) 470; <sup>1</sup>H NMR: (DMSO) 9.02 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.90-7.78 (m, 4H), 7.60-7.44 (m, 4H), 5.10 (m, 1H), 4.79 (s, 2H), 4.15 (m, 2H), 3.92 (dd, J=3.4Hz, J=14.3Hz, 1H), 3.72 (dd, , J=9.5Hz, J=14.5Hz, 1H);

#### N-[1R-cyanomethylcarbamoyl-2-(3-

trifluoromethylsulfanylbenzylsulfonyl)ethyl]-benzamide (Compound 86); Mass Spectrum: (M+H<sup>+</sup>) 486; (M-H<sup>+</sup>) 484; <sup>1</sup>H-NMR: (DMSO, δ) 9.00 (d, J = 8.2 Hz, 1H), 8.80 (t, J = 5.4Hz, 1H), 7.90 - 7.46 (m, 9H), 5.05 (m, 1H), 4.70 (s, 2H), 4.13 (m, 2H), 3.82 (dd, J = 3.2 Hz, J = 14.9 Hz, 1H), 3.58 (dd, J = 9.7 Hz, J = 14.6 Hz, 1H);

#### N-[1R-cyanomethylcarbamoyl-2-(2-fluoro-4-

trifluoromethylbenzylsulfonyl)ethyl]-benzamide (Compound 87); Mass Spectrum:
 (M+H<sup>+</sup>) 472; (M-H<sup>+</sup>) 470; <sup>1</sup>H NMR: (DMSO) 9.00 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.90-7.46 (m, 8H), 5.10 (m, 1H), 4.78 (s, 2H), 4.15 (m, 2H), 3.92 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.71 (dd, J=9.5Hz, J=14.5Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(2,3,5-trifluorobenzylsulfonyl)ethyl]benzamide

(Compound 88); Mass Spectrum: (M+H<sup>+</sup>) 440; (M-H<sup>+</sup>) 438; <sup>1</sup>H NMR: (DMSO) 8.99

(d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.88 (m, 2H), 7.69-7.46 (m, 4H), 7.25-7.18 (m, 1H), 5.08 (m, 1H), 4.75 (s, 2H), 4.15 (m, 2H), 3.92 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.71

(dd, J=9.5Hz, J=14.5Hz, 1H);

#### N-[1R-cyanomethylcarbamoyl-2-(2-

30 <u>trifluoromethylsulfanylbenzylsulfonyl)ethyl]-benzamide</u> (Compound 89); Mass Spectrum: (M+H<sup>+</sup>) 486; (M-H<sup>+</sup>) 484; <sup>1</sup>H-NMR: (DMSO, δ) 9.04 (d, J = 8.2 Hz, 1H),

8.87 (t, J = 5.6Hz, 1H), 7.92 - 7.46 (m, 9H), 5.11 (m, 1H), 4.92 (s, 2H), 4.15 (m, 2H), 3.90 (dd, J = 3.5 Hz, J = 14.8 Hz, 1H), 3.77 (dd, J = 9.7 Hz, J = 14.6 Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(4-fluoro-2-

trifluoromethylbenzylsulfonyl)ethyl]-benzamide (Compound 90); Mass Spectrum:

(M+H<sup>+</sup>) 472; (M-H<sup>+</sup>) 470; <sup>1</sup>H NMR: (DMSO) 9.01 (d, J=8.2Hz, 1H), 8.86 (t, J=5.4Hz, 1H), 7.89 (m, 2H), 7.75-7.46 (m, 6H), 5.09 (m, 1H), 4.80 (d, J=14.3Hz, 1H), 4.73 (d, J=14.3Hz, 1H), 4.15 (m, 2H), 3.90 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.77 (dd, , J=9.5Hz, J=14.5Hz, 1H);

#### *N*-[1*R*-cyanomethylcarbamoyl-2-(2-fluoro-5-

trifluoromethylbenzylsulfonyl)ethyl]-benzamide (Compound 91); Mass Spectrum: (M+H<sup>+</sup>) 472; (M-H<sup>+</sup>) 470; <sup>1</sup>H NMR: (DMSO) 9.01 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.91-7.84 (m, 4H), 7.60-7.46 (m, 4H), 5.10 (m, 1H), 4.78 (s, 2H), 4.14 (m, 2H), 3.91 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.71 (dd, J=9.5Hz, J=14.5Hz, 1H);

#### N-[1R-cyanomethylcarbamoyl-2-(2-

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- trifluoromethoxybenzylsulfonyl)ethyl]benzamide (Compound 92); Mass Spectrum: (M+H<sup>+</sup>) 470; (M-H<sup>+</sup>) 468; <sup>1</sup>H-NMR: (DMSO, δ) 9.01 (d, J = 7.9 Hz, 1H), 8.84 (t, J = 5.3Hz, 1H), 7.89 (d, J = 7.7 Hz, 2H) 7.60 7.40 (m, 7H), 5.10 (m, 1H), 4.67 (s, 2H), 4.14 (m, 2H), 3.86 (dd, J = 3.2 Hz, J = 14.4 Hz, 1H), 3.70 (dd, J = 9.9 Hz, J = 14.4 Hz, 1H);
- 20 <u>N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[4-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-benzamide</u> (Compound 93); Mass Spectrum: (M+H<sup>+</sup>) 452; (M-H<sup>+</sup>) 450; <sup>1</sup>H NMR: (DMSO) 8.99 (d, J=8.2Hz, 1H), 8.80 (t, J=5.4Hz, 1H), 7.88 (m, 2H), 7.60-7.42 (m, 5H), 7.27 (t, J<sub>H,F</sub>=74Hz, 1H), 7.20 (d, J=8.4Hz, 2H), 5.05 (m, 1H), 4.58 (s, 2H), 4.14 (m, 2H), 3.79 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.55 (dd, , J=9.5Hz, J=14.5Hz, 1H);

N-[2-(3,5-bistrifluoromethylbenzylsulfonyl)-1*R*-cyanomethylcarbamoylethyl]-benzamide (Compound 94); Mass Spectrum: (M+H<sup>+</sup>) 522; (M-H<sup>+</sup>) 520; <sup>1</sup>H NMR: (DMSO) 9.00 (d, J=8.2Hz, 1H), 8.82 (t, J=5.6Hz, 1H), 8.17 (s, 1H), 8.13 (s, 2H), 7.88 (m, 2H), 7.60-7.46 (m, 3H), 5.07 (m, 1H), 4.89 (s, 2H), 4.14 (m, 2H), 3.88 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.63 (dd, J=9.5Hz, J=14.5Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(2-methoxybenzylsulfonyl)ethyl]benzamide

(Compound 95); Mass Spectrum: M + 1 = 416; NMR 270 MHz (DMSO): 8.3 (dd, 6, 1, 2H) 8 - 7.8 (m, 6H) 7.5 (d, 8, 1H) 7.4 (dd 8, 7, 1H) 5.6 (dd, 9, 3, 1H) 5.0 (d, 14, 1H) 4.6 (dd, 5,3, 2H) 4.8 (d 14, 1H) 4.6 (S, 2H) 4.2 (dd 15, 3, 1H) 3.8 (dd 15, 9, 1H);

N-[1R-cyanomethylcarbamoyl-2-(2,6-dichlorobenzylsulfonyl)ethyl]benzamide

5 (Compound 96); Mass Spectrum: M + 1 = 454; NMR 270 MHz (acetone): 7.8 (d, 7, 2H) 7.4 (m, 6H) 5.3 (dd, 9, 3, 1H) 5.0 (d, 5, 2H) 4.2 (d, 3, 2H) 4.1 (dd 14, 3, 1H) 3.9 (dd, 14, 9, 1H);

N-(1R-cyanomethylcarbamoyl-3-pyrid-4-ylsulfonylpropyl)benzamide (Compound 97) MS: (M-1) = 385; NMR (1H): 8.95 (m, 2H), 8.72 (m, 2H), 7.88 (t, 10 2.2Hz, 2H), 7.78 (d, 1.7 Hz, 2H), 7.45-7.58 (m, 3H), 4.55 (m, 1H), 4.11 (d, 5.6 Hz, 2H), 3.51 (m, 2H), 2.10 (m, 2H);

N-(1R-cyanomethylcarbamoyl)-3-pyrid-2-ylsulfonylpropyl)benzamide
(Compound 98) MS: (M-1) = 385; NMR: (1H): 8.6-8.77 (m, 2H), 8.18 (dt, 1.7, 7.6 Hz, 1H), 8.06 (d, 7.6 Hz, 1 H), 7.88 (d, 6.9 Hz, 2H), 7.72 (m, 1H), 7.45-7.58 (m, 4H), 4.12 (t, 2.7 Hz, 2H), 4.55 (m, 1H), 3.45-3.60 (m, 2H), 1.95-2.25 (m, 2H);

N-(1R-cyanomethylcarbamoyl-2-(3-

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difluoromethoxybenzylsulfonyl)ethyl]benzamide (Compound 99); Mass Spectrum:  $(M+H^+)$  452;  $(M-H^+)$  450;  $^1H$ -NMR: (DMSO,  $\delta$ ) 8.99 (d, J = 8.2 Hz, 1H), 8.81 (t, J = 6.2Hz, 1H), 7.87 (d, J = 8.2 Hz, 2H), 7.60 - 7.18 (m, 7H), 7.22 (t, J<sub>H,F</sub> = 74 Hz, 1H), 5.05 (m, 1H), 4.62 (s, 2H), 4.14 (m, 2H), 3.81 (dd, J = 2.7 Hz, J = 14.5 Hz, 1H), 3.57 (dd, J = 9.7 Hz, J = 14.4 Hz, 1H);

N-[1R-cyanomethylcarbamoyl-2-(4-fluoro-3-

trifluoromethylbenzylsulfonyl)ethyl]-benzamide (Compound 100); Mass Spectrum: (M+H<sup>+</sup>) 472; (M-H<sup>+</sup>) 470; <sup>1</sup>H NMR: (DMSO) 8.98 (d, J=8.2Hz, 1H), 8.81 (t, J=5.6Hz, 1H), 7.90-7.75 (m, 4H), 7.62-7.46 (m, 4H), 5.05 (m, 1H), 4.72 (s, 2H), 4.14 (m, 2H), 3.84 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.58 (dd, J=9.5Hz, J=14.5Hz, 1H);

4-(2*R*-benzoylamino-2-cyanomethylcarbamoylethylsulfonylmethyl)benzoic acid (Compound 101); Mass Spectrum: (M+H<sup>+</sup>) 430; (M-H<sup>+</sup>) 428; <sup>1</sup>H NMR: (DMSO) 8.98 (d, J=8.2Hz, 1H), 8.81 (t, J=5.6Hz, 1H), 7.95 (d, J=8.2Hz, 2H), 7.88 (m, 2H), 7.60-7.46 (m, 5H), 5.06 (m, 1H), 4.69 (s, 2H), 4.13 (m, 2H), 3.81 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.57 (dd, J=9.5Hz, J=14.5Hz, 1H) and

<u>N-[1R-(1-cyanocyclopropylcarbamoyl)-2-benzylsulfonylethyl]morpholine-4-</u>carboxamide (Compound 103).

#### **EXAMPLE 8**

5 <u>N-[1R-(1-cyanocyclopropylcarbamoyl)-2-(2-difluoromethoxybenzylsulfonyl)ethyl]-</u> morpholine-4-carboxamide (Compound 104);

A mixture of (*R*)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]2-[(1-morpholin-4-yl-methanoyl)-amino]-propionic acid (200 mg, 0.473 mmol),
prepared as in Reference 7, in CH<sub>2</sub>Cl<sub>2</sub> (3 mL), HATU (270 mg, 0.71 mmol) and HOAt
(64.3 mg, 0.473 mmol) was treated with 1-amino-cyclopropanecarbonitrile (116 mg,
0.71 mmol) and N-methylmorpholine (0.156 mL, 1.42 mmol) and then DMF (3 mL) to
obtain a homogenous solution. The mixture was stirred at room temperature for
16 hours, diluted with ethyl acetate (150 mL), washed with saturated aqueous NaHCO<sub>3</sub>
and then brine, dried (MgSO<sub>4</sub>) and concentrated to provide *N*-[1*R*-(1cyanocyclopropylcarbamoyl)-2-(2-difluoromethoxybenzylsulfonyl)ethyl]-morpholine-4carboxamide. The product was purified by flash chromatography. <sup>1</sup>H NMR: (DMSO)
8.99 (s, 1H), 7.50-7.23 (m, 4H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 7.03 (d, J=8.4Hz, 1H), 4.64
(m, 1H), 4.55 (s, 2H), 3.64-3.24 (m, 10H), 1.47 (m, 2H), 1.14 (m, 2H).

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#### **EXAMPLE 9**

# $\label{eq:normalized} $N$-[1R-cyanomethylcarbamoyl-2-(2-diffuoromethoxybenzylsulfonyl)ethyl]morpholine- \\ 4-carboxamide$

(Compound 102)

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A solution of *N*-[2-tert-butyldisulfanyl-

1R-cyanomethylcarbamoylethyl]morpholine-4-carboxamide (7.37 g, 20.4 mmol), provided as in Reference 8, in DMF (80 mL) was treated sequentially with tris(carboxyethyl)phosphine hydrochloride (7.03 g, 24.53 mmol) and aqueous potassium hydroxide solution (5N, 20 mL). The mixture was stirred for 5 hours and then treated with 2-difluoromethoxybenzyl bromide (14.54 g, 61.3 mmol). The mixture was stirred for 3 hours and then acidified with 1N hydrochloric acid. Product was extracted with ethyl acetate (3x150 mL) and the combined extracts were washed with brine, dried (MgSO<sub>4</sub>) and concentrated. The residue was dissolved in methanol (500 mL) and then a saturated aqueous solution of Oxone® (200 mL) was added in one portion. The mixture was stirred for 2 hours and then concentrated under vacuum. Product was extracted from the residue with ethyl acetate (3x150 mL). The combined extracts were washed with brine, dried (MgSO<sub>4</sub>) and concentrated. Crude product was crystallized from ethyl acetate/hexane to provide N-[1R-cyanomethylcarbamoyl-2-(2difluoromethoxybenzylsulfonyl)ethyl]morpholine-4-carboxamide (5.45 g) as a white crystalline solid. Mass Spectrum: (M+H<sup>+</sup>) 461; (M-H<sup>+</sup>) 459. <sup>1</sup>H-NMR: (DMSO, δ) 8.69 (t, J = 5.4Hz, 1H), 7.54 - 7.09 (m, 4H), 7.14 (t,  $J_{H,F} = 74$  Hz, 1H), 4.73 (m, 1H), 4.56 (s, 2H), 4.13 (s, 2H), 3.68 - 3.25 (m, 10H).

#### **EXAMPLE 10**

# Morpholine-4-carboxylic acid {(R)-1-(4-cyano-1-methyl-piperidin-4-ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide

(Compound 121)

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A solution of (R)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-10 2-[(1-morpholin-4-yl-methanoyl)-amino]-propionic acid (200 mg, 0.473 mmol), provided as in Reference 1, in CH<sub>2</sub>Cl<sub>2</sub> (3 mL) was combined with HATU (270 mg, 0.71 mmol), HOAt (64.3 mg, 0.473 mmol), 4-amino-1-methyl-piperidine-4-carbonitrile (98 mg, 0.71 mmol), N-methylmorpholine (0.156 mL, 1.42 mmol) and then DMF (3 mL) to obtain a homogenous solution. The mixture was stirred at room temperature 15 for 16 hours, diluted with ethyl acetate (150 mL), washed with saturated aqueous NaHCO<sub>3</sub> and then brine, dried (MgSO<sub>4</sub>) and concentrated. The product was purified from the residue by flash chromatography to provide morpholine-4-carboxylic acid  $\{(R)-1-(4-cyano-1-methyl-piperidin-4-ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-2-[2-($ phenylmethanesulfonyl]-ethyl]-amide. <sup>1</sup>H NMR: (DMSO) 8.62 (s, 1H), 7.51-7.23 (m, 20 4H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 7.06 (d, J=8.6Hz, 1H), 4.70 (m, 1H), 4.57 (s, 2H), 3.57-3.25 (m, 10H), 2.62-1.82 (m, 11H).

The following compounds of Formula I are provided by the methods described

in this Application:

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#### N-[1R-cyanomethylcarbamoyl-2-(3,5-dimethylisoxazol-4-

ylmethylsulfonyl)ethyl]-benzamide (Compound 105); <sup>1</sup>H NMR: (DMSO) 9.02 (d, J=8.4Hz, 1H), 8.83 (t, J=5.6Hz, 1H), 7.89 (m, 2H), 7.60-7.46 (m, 3H), 5.10 (m, 1H), 4.51 (d, J=14.5Hz, 1H), 4.41 (d, J=14.5Hz, 1H), 4.15 (m, 2H), 3.89 (dd, J=3.4Hz, J=14.5Hz, 1H), 3.66 (dd, , J=9.5Hz, J=14.5Hz, 1H), 2.37 (s, 3H), 2.18 (s, 3H). MS: (M<sup>+</sup>+1) 430;

#### N-[2-(5-chlorothien-2-ylmethylsulfonyl)-1R-

cyanomethylcarbamoylethyl]benzamide (Compound 106); <sup>1</sup>H NMR: (DMSO) 9.00 (d, J=8.2Hz, 1H), 8.80 (t, J=5.6Hz, 1H), 7.88 (m, 2H), 7.60-7.46 (m, 3H), 7.09 (d, J=3.7Hz, 1H), 7.04 (d, J=3.7Hz, 1H), 5.03 (m, 1H), 4.87 (d, J=14.7Hz, 1H), 4.80 (d, J=14.7Hz, 1H), 4.13 (m, 2H), 3.84 (dd, J=3.2Hz, J=14.3Hz, 1H), 3.59 (dd, , J=9.5Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 426;

#### N-[1R-cyanomethylcarbamoyl-2-(2-fluoro-3-

methylbenzylsulfonyl)ethyl]benzamide (Compound 107); Mass Spectrum: (M+H<sup>+</sup>) 418; (M-H<sup>+</sup>) 416; <sup>1</sup>H-NMR: (DMSO, δ) 8.99 (d, J = 7.9 Hz, 1H), 8.82 (t, J = 5.7Hz, 1H), 7.87 (d, J = 8.2 Hz, 2H), 7.60 - 7.45 (m, 3H), 7.34 - 7.25 (m, 2H), 7.12 (t, J = 7.5 Hz, 1H), 5.07 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.86 (dd, J = 3.2 Hz, J = 14.4 Hz, 1H), 3.66 (dd, J = 9.7 Hz, J = 14.4 Hz, 1H), 2.23 (s, 3H);

<u>N-[1-(Cyanomethyl-carbamoyl)-2-(1-oxy-pyridin-2-ylmethanesulfonyl)-ethyl]-benzamide</u> (Compound 108) Mass Spec: MW = 402.4, M=100.0; <u>N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-</u>

phenylmethane-sulfonyl]-ethyl}-1-oxy-nicotinamide (Compound 109); <sup>1</sup>H NMR:

25 (DMSO) 9.32 (d, J=8.2Hz, 1H), 8.91 (t, J=5.6Hz, 1H), 8.62 (s, 1H), 8.39 (d, J=6.4Hz, 1H), 7.70 (d, J=8.2Hz, 1H), 7.58-7.44 (m, 3H), 7.32-7.24 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 5.05 (m, 1H), 4.62 (s, 2H), 4.16 (m, 2H), 3.83 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.58 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 469;

## N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-

30 <u>phenylmethane-sulfonyl}-ethyl}-nicotinamide</u> (Compound 110); <sup>1</sup>H NMR: (DMSO) 9.21 (d, J=7.9 Hz, 1H), 9.03 (s, 1H), 8.88 (t, J=5.4Hz, 1H), 8.73 (dd, J=1.5Hz, J=4.7Hz,

1H), 8.20 (m, 1H), 7.57-7.44 (m, 3H), 7.32-7.23 (m, 2H), 7.13 (t,  $J_{H,F}$ =74Hz, 1H), 5.10 (m, 1H), 4.62 (s, 2H), 4.15 (m, 2H), 3.84 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.62 (dd, , J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 453;

*N*-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-

- phenylmethane-sulfonyl]-ethyl}-isonicotinamide (Compound 111); <sup>1</sup>H NMR: (DMSO)
   9.31 (d, J=8.4 Hz, 1H), 8.90 (t, J=5.4Hz, 1H), 8.77-8.75 (m, 2H), 8.78-8.76 (m, 2H),
   7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 5.09 (m, 1H), 4.62 (s, 2H), 4.15 (m, 2H), 3.83 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M\*+1) 453;
- N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-1-oxy-isonicotinamide (Compound 112); <sup>1</sup>H NMR: (DMSO) 9.25 (d, J=8.2 Hz, 1H), 8.90 (t, J=5.4Hz, 1H), 8.35 (d, J=7.2Hz, 2H), 7.82 (d, J=7.2Hz, 2H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.05 (m, 1H), 4.61 (s, 2H), 4.15 (m, 2H), 3.82 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.60 (dd, ,
   J=10.0Hz, J=14.5Hz, 1H). MS: (M\*+1) 469;

Pyridine-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoromethoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 113); <sup>1</sup>H NMR: (DMSO) 9.34 (d, J=8.8 Hz, 1H), 8.78 (t, J=5.4Hz, 1H), 8.68 (d, J=4.7Hz, 1H), 8.09-7.99 (m, 2H), 7.64 (t, J=6.2Hz, 1H), 7.49-7.43 (m, 2H), 7.30-7.22 (m, 2H), 7.10 (t, J<sub>H,F</sub>=74Hz, 1H), 5.13 (m, 1H), 4.58 (s, 2H), 4.12 (m, 2H), 3.93-3.77 (m, 2H). MS: (M\*+1) 453;

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Pyrazine-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoromethoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 114); <sup>1</sup>H NMR: (DMSO) 9.46 (d, J=8.7 Hz, 1H), 9.22 (d, J=1.5Hz, 1H), 8.91 (d, J=2.5Hz, 1H), 8.82-8.77 (m, 2H), 7.51-7.43 (m, 2H), 7.31-7.21 (m, 2H), 7.11 (t, J<sub>H,F</sub>=74Hz, 1H), 5.16 (m, 1H), 4.58 (s, 2H), 4.13 (m, 2H), 3.91-3.78 (m, 2H). MS: (M<sup>†</sup>+1) 454;

*N*-{(R)-1-(Cyanomethyl-carbamoyl)-2-{2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-2-hydroxy-nicotinamide (Compound 115); <sup>1</sup>H NMR: (DMSO) 10.38 (d, J=7.8Hz, 1H), 8.88 (t, J=5.4Hz, 1H), 8.32 (dd, J=1.5Hz, J=7.2Hz, 1H), 7.74 (m, 1H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.11 (t, J<sub>H,F</sub>=74Hz, 1H), 6.49 (t, J=6.6Hz, 1H), 5.07 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.73 (d, J=6.4Hz, 2H). MS: (M<sup>+</sup>+1) 469;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-6-hydroxy-nicotinamide (Compound 116); <sup>1</sup>H NMR: (DMSO) 12.03 (s, 1H), 8.83-8.77 (m, 2H), 8.01 (d, J=2.2Hz, 1H), 7.84 (dd, J=2.5Hz, J=9.4Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 6.38 (d, J=9.6Hz, 1H), 4.99 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.78 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.55 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M\*+1) 469;

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2-Amino-*N*-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenyl-methanesulfonyl]-ethyl}-nicotinamide (Compound 117); <sup>1</sup>H NMR: (DMSO) 8.91 (d, J=7.9Hz, 1H), 8.82 (t, J=5.4Hz, 1H), 8.10 (d, J=3.7Hz, 1H), 7.94 (d, J=7.7Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 7.05 (s, 2H), 6.61 (dd, J=4.7Hz, J=7.4Hz, 1H), 5.03 (m, 1H), 4.60 (s, 2H), 4.13 (m, 2H), 3.80 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.62 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M\*+1) 468;

6-Amino-*N*-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-nicotinamide (Compound 118); <sup>1</sup>H NMR: (DMSO) 8.76 (t, J=5.4Hz, 1H), 8.66 (d, J=8.4Hz, 1H), 8.48 (s, 1H), 7.81 (d, J=8.5Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 6.56 (s, 2H), 6.43 (d, J=8.7Hz, 1H), 5.02 (m, 1H), 4.58 (s, 2H), 4.12 (m, 2H), 3.77 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.61 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 468;

3-Hydroxy-pyridine-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-20 (1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 119); <sup>1</sup>H NMR: (DMSO) 12.04 (s, 1H), 9.64 (d, J=9.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 8.20 (d, J=4.5Hz, 1H), 7.57 (dd, J=4.5Hz, J=8.7Hz, 1H), 7.52-7.44 (m, 3H), 7.31-7.22 (m, 2H), 7.11 (t, J<sub>H,F</sub>=74Hz, 1H), 5.15 (m, 1H), 4.60 (s, 2H), 4.14 (m, 2H), 3.94-3.81 (m, 2H). MS: (M<sup>+</sup>+1) 469;

Morpholine-4-carboxylic acid {(R)-1-(4-cyano-tetrahydro-pyran-4-ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 120); ¹H NMR: (DMSO) 8.75 (s, 1H), 7.51-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 7.04 (d, J=8.4Hz, 1H), 4.72 (m, 1H), 4.57 (s, 2H), 3.78 (m, 2H), 3.60-3.25 (m, 12H), 2.24-2.10 (m, 2H), 1.98-1.84 (m, 2H). MS: (M⁺+1) 531;

(R)-N-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(3-pyridin-3-yl-ureido)-propionamide (Compound 122); <sup>1</sup>H NMR: (DMSO) 9.08 (s, 1H),

8.90 (t, J=5.4Hz, 1H), 8.55 (d, J=2.5Hz, 1H), 8.14 (dd, J=1.2Hz, J=4.7Hz, 1H), 7.90 (m, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 3H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 6.84 (d, J=8.9Hz, 1H), 4.84 (m, 1H), 4.61 (s, 2H), 4.15 (m, 2H), 3.70 (dd, J=4.2Hz, J=14.5Hz, 1H), 3.60 (dd, J=8.4Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 468;

(R)-N-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(3-pyridin-4-yl-ureido)-propionamide (Compound 123); <sup>1</sup>H NMR: (DMSO) 9.34 (s, 1H), 8.92 (t, J=5.4Hz, 1H), 8.31 (d, J=5.9Hz, 2H), 7.52-7.37 (m, 4H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 6.92 (d, J=8.4Hz, 1H), 4.84 (m, 1H), 4.61 (s, 2H), 4.15 (m, 2H), 3.71 (dd, J=4.2Hz, J=14.5Hz, 1H), 3.61 (dd, J=8.4Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 468;

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(R)-N-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(3-isopropyl-ureido)-propionamide (Compound 124); <sup>1</sup>H NMR: (DMSO) 8.76 (t, J=5.4Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 6.31 (d, J=8.7Hz, 1H), 6.15 (d, J=7.7Hz, 1H), 4.71 (m, 1H), 4.55 (s, 2H), 4.12 (m, 2H), 3.75-3.40 (m, 3H), 1.03 (d, J=6.4Hz, 6H). MS: (M<sup>+</sup>+1) 433;

(R)-N-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(3,3-dimethyl-ureido)-propionamide (Compound 125); <sup>1</sup>H NMR: (DMSO) 8.65 (t, J=5.4Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 6.84 (d, J=7.0Hz, 1H), 4.71 (m, 1H), 4.55 (s, 2H), 4.11 (m, 2H), 3.68-3.51 (m, 2H), 2.82 (s, 6H). MS: (M<sup>+</sup>+1) 419;

(R)-2-Acetylamino-N-cyanomethyl-3-phenylmethanesulfonyl-propionamide (Compound 126);

N-[(R)-1-(Cyanomethyl-carbamoyl)-2-phenylmethanesulfonyl-ethyl]-2-methoxy-benzamide (Compound 127);

<u>N-[(S)-1-(Cyanomethyl-carbamoyl)-3-phenylmethanesulfonyl-propyl]-benzamide</u> (Compound 128); <sup>1</sup>H NMR: (DMSO) 8.7 (m, 2H), 7.91 (d, J=7Hz, 2H), 7.5 (m, 3H), 7.35 (m, 5H), 4.56 (m, 1H), 4.51 (s, 2H), 4.15 (d, J=6Hz, 2H), 3.1 (m, 2H), 2.2 (m, 2H). MS: (m/e) = 400.2;

Morpholine-4-carboxylic acid {(R)-1-[(1,1-dicyano-methyl)-carbamoyl]-2-phenyl-methanesulfonyl-ethyl}-amide (Compound 129);

2-(2-Benzenesulfonyl-ethyl)-N-benzyl-N'-cyanomethyl-malonamide

(Compound 130); <sup>1</sup>H NMR: (DMSO) 8.57 (t, J=6Hz, 1H), 8.43 (t, J=6Hz, 1H), 7.86 (d, J=7Hz, 2H), 7.79 (t, J=5Hz, 1H), 7.68 (t, J=8Hz, 2H), 7.15 (m, 5H), 4.26 (d, J=6Hz, 2H), 4.13 (d, J=6Hz, 2H), 3.35 (m, 1H), 3.19 (m, 2H), 2.00 (m, 2H). MS: (M/e) = 400.04;

5 {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid methyl ester (Compound 131); <sup>1</sup>H NMR: (DMSO) 8.87 (t, J=5.4Hz, 1H), 7.75 (d, J=8.6Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 4.62 (m, 1H), 4.57 (s, 2H), 4.12 (m, 2H), 3.66 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.57 (s, 3H), 3.42 (dd, J=9.4Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 406;

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{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid allyl ester (Compound 132); <sup>1</sup>H NMR: (DMSO) 8.87 (t, J=5.4Hz, 1H), 7.84 (d, J=8.6Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 5.90 (m, 1H), 5.31 (d, J=17Hz, 1H), 5.18 (d, J=10.6Hz, 1H), 4.62 (m, 1H), 4.57 (s, 2H), 4.51 (m, 2H), 4.12 (m, 2H), 3.66 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.44 (dd, J=9.4Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 432;

{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid isopropyl ester (Compound 133); <sup>1</sup>H NMR: (DMSO) 8.80 (t, J=5.4Hz, 1H), 7.60 (d, J=8.4Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 4.77 (sept, J=6.4Hz, 1H), 4.62 (m, 1H), 4.56 (s, 2H), 4.13 (m, 2H), 3.64 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.43 (dd, J=9.4Hz, J=14.5Hz, 1H), 1.19 (d, J=6.4Hz, 3H), 1.16 (d, J=6.4Hz, 3H). MS: (M\*+1) 434;

{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-carbamic acid isobutyl ester (Compound 134); <sup>1</sup>H NMR: (DMSO) 8.82 (t, J=5.4Hz, 1H), 7.71 (d, J=8.7Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 4.61 (m, 1H), 4.56 (s, 2H), 4.13 (m, 2H), 3.86-3.69 (m, 2H), 3.65 (dd, J=3.4Hz, J=14.5Hz, 1H), 3.44 (dd, J=9.6Hz, J=14.5Hz, 1H), 1.84 (sept, J=6.4Hz, 1H), 0.88 (d, J=6.6Hz, 6H). MS: (M\*+1) 448;

(R)-N-Cyanomethyl-2-(1-oxo-1,3-dihydro-isoindol-2-yl)-3phenylmethanesulfonyl-propionamide (Compound 135); <sup>1</sup>H NMR: (DMSO) 8.93 (t, J=5.4Hz, 1H), 7.72 (d, J=7.7Hz, 1H), 7.64-7.36 (m, 8H), 5.32 (m, 1H), 4.65-5.52 (m, 3H), 4.43 (d, J=17Hz, 1H), 4.12 (m, 2H), 3.92-3.77 (m, 2H). MS: (M<sup>+</sup>+1) 398;

*N*-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3,4-difluoro-benzamide (Compound 136); <sup>1</sup>H NMR: (DMSO) 9.12 (d, J=8.2Hz, 1H), 8.87 (t, J=5.4Hz, 1H), 7.90 (m, 1H), 7.76 (m, 1H), 7.65-7.44 (m, 3H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.06 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.82 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.61 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 488;

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N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3,4-dimethoxy-benzamide (Compound 137); <sup>1</sup>H NMR: (DMSO) 8.86 (d, J=8.2Hz, 1H), 8.80 (t, J=5.4Hz, 1H), 7.54-7.44 (m, 4H), 7.32-7.23 (m, 2H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 7.05 (d, J=8.4Hz, 1H), 5.05 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.81 (s, 3H), 3.80 (s, 3H), 3.79 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.64 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 512;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3-methyl-benzamide (Compound 138); <sup>1</sup>H NMR: (DMSO) 8.94 (d, J=8.2Hz, 1H), 8.80 (t, J=5.4Hz, 1H), 7.71-7.64 (m, 2H), 7.52-7.23 (m, 6H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.07 (m, 1H), 4.60 (s, 2H), 4.13 (m, 2H), 3.81 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.65 (dd, J=10.0Hz, J=14.5Hz, 1H), 2.37 (s, 3H). MS: (M<sup>+</sup>+1) 466;

Thiophene-3-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 139); <sup>1</sup>H NMR: (DMSO) 8.86 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 8.18 (dd, J=1.0Hz, J=2.7Hz, 1H), 7.61 (dd, J=2.9Hz, J=4.9Hz, 1H), 7.53-7.44 (m, 3H), 7.32-7.23 (m, 2H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 5.02 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.79 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.60 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 458;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-4-fluoro-benzamide (Compound 140); <sup>1</sup>H NMR: (DMSO) 9.03 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.97-7.92 (m, 2H), 7.53-7.23 (m, 6H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.07 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.81 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.64 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 470;

4-Methyl-pentanoic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 141); <sup>1</sup>H NMR: (DMSO)

8.73 (t, J=5.4Hz, 1H), 8.41 (d, J=8.4Hz, 1H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 4.83 (m, 1H), 4.56 (s, 2H), 4.12 (m, 2H), 3.67 (dd, J=3.9Hz, J=14.5Hz, 1H), 3.39 (dd, J=9.0Hz, J=14.5Hz, 1H), 2.14 (t, J=7.4Hz, 2H), 1.58-1.35 (m, 3H), 0.84 (d, J=6.4Hz, 6H). MS: (M<sup>+</sup>+1) 446;

Thiophene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 142); <sup>1</sup>H NMR: (DMSO) 9.02 (d, J=8.2Hz, 1H), 8.87 (t, J=5.4Hz, 1H), 7.80 (m, 2H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.18 (dd, J=3.9Hz, J=4.9Hz, 1H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 5.02 (m, 1H), 4.60 (s, 2H), 4.14 (m, 2H), 3.80 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.61 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 458;

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4-Bromo-*N*-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenyl-methanesulfonyl]-ethyl}-benzamide (Compound 143); <sup>1</sup>H NMR: (DMSO) 9.08 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.82 (d, J=8.7Hz, 2H), 7.72 (d, J=8.7Hz, 2H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.06 (m, 1H), 4.60 (s, 2H), 4.14 (m, 2H), 3.81 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.62 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 530, 532;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-4-methoxy-benzamide (Compound 144); <sup>1</sup>H NMR: (DMSO) 8.83 (d, J=8.2Hz, 1H), 8.78 (t, J=5.4Hz, 1H), 7.86 (d, J=8.6Hz, 2H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 7.02 (d, J=8.7Hz, 2H), 5.05 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.81 (s, 3H), 3.79 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.64 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 482;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-4-trifluoromethoxy-benzamide (Compound 145); <sup>1</sup>H NMR: (DMSO) 9.12 (d, J=8.2Hz, 1H), 8.85 (t, J=5.4Hz, 1H), 8.00 (d, J=8.6Hz, 2H), 7.54-7.44 (m, 4H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.08 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.82 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 536;

Naphthalene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 146); <sup>1</sup>H NMR: (DMSO) 9.18 (d, J=8.2Hz, 1H), 8.87 (t, J=5.4Hz, 1H), 8.49 (s, 1H), 8.05-7.94 (m, 4H),

7.66-7.57 (m, 2H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.14 (m, 1H), 4.63 (s, 2H), 4.16 (m, 2H), 3.85 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.69 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 502;

(E)-N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)phenylmethane-sulfonyl]-ethyl}-3-phenyl-acrylamide (Compound 147); <sup>1</sup>H NMR: (DMSO) 8.88 (t, J=5.4Hz, 1H), 8.78 (d, J=8.2Hz, 1H), 7.61-7.38 (m, 8H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 6.66 (d, J=16Hz, 1H), 4.99 (m, 1H), 4.60 (s, 2H), 4.14 (m, 2H), 3.75 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.49 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 478;

5-Methyl-thiophene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 148); <sup>1</sup>H NMR: (DMSO) 8.87 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.59 (d, J=3.7Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 6.86 (m, 1H), 4.99 (m, 1H), 4.58 (s, 2H), 4.13 (m, 2H), 3.78 (dd, J=3.4Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H), 2.47 (s, 3H). MS: (M<sup>+</sup>+1) 472;

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Biphenyl-4-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoromethoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 149); <sup>1</sup>H NMR: (DMSO) 9.06 (d, J=8.4Hz, 1H), 8.86 (t, J=5.4Hz, 1H), 7.98 (d, J=8.4Hz, 2H), 7.81 (d, J=8.4Hz, 2H), 7.74 (d, J=7.4Hz, 2H), 7.53-7.38 (m, 5H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 5.11 (m, 1H), 4.61 (s, 2H), 4.15 (m, 2H), 3.83 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.68 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 528;

1*H*-Indole-5-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide; (Compound 150); <sup>1</sup>H NMR: (DMSO) 11.36 (s, 1H), 8.83 (d, J=8.2Hz, 1H), 8.78 (t, J=5.4Hz, 1H), 8.18 (s, 1H), 7.66 (dd, J=1.7Hz, J=8.4Hz, 1H), 7.53-7.42 (m, 4H), 7.32-7.23 (m, 2H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 6.55 (m, 1H), 5.10 (m, 1H), 4.60 (s, 2H), 4.14 (m, 2H), 3.80 (dd, J=3.5Hz, J=14.5Hz, 1H), 3.70 (dd, J=9.2Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 491;

Benzo[1,3]dioxole-5-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 151); <sup>1</sup>H NMR: (DMSO) 8.83 (d, J=8.2Hz, 1H), 8.79 (t, J=5.4Hz, 1H), 7.52-7.39 (m, 4H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 7.02 (d, J=8.2Hz, 1H), 6.10 (s, 2H), 5.03 (m,

1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.78 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.62 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M $^++1$ ) 496;

Benzo[b]thiophene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 152); <sup>1</sup>H NMR: (DMSO) 9.30 (d, J=8.2Hz, 1H), 8.92 (t, J=5.4Hz, 1H), 8.12 (s, 1H), 8.06-7.97 (m, 2H), 7.53-7.40 (m, 4H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.07 (m, 1H), 4.62 (s, 2H), 4.16 (m, 2H), 3.83 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 508;

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N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)phenylmethane-sulfonyl]-ethyl}-3-phenoxy-benzamide (Compound 153); <sup>1</sup>H NMR:
(DMSO) 9.04 (d, J=8.2Hz, 1H), 8.82 (t, J=5.4Hz, 1H), 7.66 (d, J=8.2Hz, 1H), 7.55-7.37
(m, 6H), 7.32-7.14 (m, 4H), 7.12 (t, J<sub>H,F</sub>=74Hz, 1H), 7.03 (d, J=7.7Hz, 2H), 5.05 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.79 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 544;

Quinoline-3-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 154); <sup>1</sup>H NMR: (DMSO) 9.40 (d, J=8.2Hz, 1H), 9.30 (d, J=2.2Hz, 1H), 8.95 (t, J=5.4Hz, 1H), 8.84 (d, J=2.0Hz, 1H), 8.12 (dd, J=3.7Hz, J=7.9Hz, 2H), 7.89 (t, J=7.4Hz, 1H), 7.71 (t, J=7.7Hz, 1H), 7.54-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 5.17 (m, 1H), 4.65 (s, 2H), 4.17 (m, 2H), 3.88 (dd, J=3.0Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 503;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3-(1-phenyl-methanoyl)-benzamide (Compound 155); 

H NMR: (DMSO) 9.22 (d, J=8.2Hz, 1H), 8.87 (t, J=5.4Hz, 1H), 8.27 (s, 1H), 8.17 (d, J=7.9Hz, 1H), 7.90 (d, J=7.9Hz, 1H), 7.78-7.66 (m, 4H), 7.59-7.44 (m, 4H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.09 (m, 1H), 4.61 (s, 2H), 4.14 (m, 2H), 3.82 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.65 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 556;

4-Chloro-*N*-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenyl-methanesulfonyl]-ethyl}-benzamide (Compound 156); <sup>1</sup>H NMR: (DMSO) 9.08 (d, J=8.2Hz, 1H), 8.84 (t, J=5.4Hz, 1H), 7.89 (d, J=8.4Hz, 2H), 7.58 (d, J=8.4Hz, 2H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.07 (m, 1H), 4.60 (s,

2H), 4.14 (m, 2H), 3.81 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.63 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 486, 488;

N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl]-ethyl}-3-fluoro-4-methoxy-benzamide (Compound 157); <sup>1</sup>H NMR: (DMSO) 8.94 (d, J=8.2Hz, 1H), 8.83 (t, J=5.4Hz, 1H), 7.75-7.68 (m, 2H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 3H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.05 (m, 1H), 4.59 (s, 2H), 4.13 (m, 2H), 3.90 (s, 3H), 3.80 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.62 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 500;

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3-Bromo-thiophene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-10 (1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 158); <sup>1</sup>H NMR: (DMSO) 8.89 (t, J=5.4Hz, 1H), 8.59 (d, J=8.2Hz, 1H), 7.86 (d, J=5.2Hz, 1H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.21 (d, J=5.2Hz, 1H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.04 (m, 1H), 4.61 (s, 2H), 4.16 (m, 2H), 3.79 (dd, J=3.5Hz, J=14.5Hz, 1H), 3.70 (dd, J=9.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 536, 538;

3-Chloro-benzo[*b*]thiophene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 159); <sup>1</sup>H NMR: (DMSO) 8.96 (t, J=5.4Hz, 1H), 8.82 (d, J=8.2Hz, 1H), 8.17-8.10 (m, 1H), 7.96-7.89 (m, 1H), 7.64-7.56 (m, 2H), 7.54-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 5.14 (m, 1H), 4.64 (s, 2H), 4.19 (m, 2H), 3.88-3.73 (m, 2H). MS: (M<sup>+</sup>+1) 542, 544;

3-Chloro-thiophene-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 160); <sup>1</sup>H NMR: (DMSO) 8.88 (t, J=5.4Hz, 1H), 8.49 (d, J=8.2Hz, 1H), 7.90 (d, J=5.4Hz, 1H), 7.52-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.18 (d, J=5.4Hz, 1H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.05 (m, 1H), 4.61 (s, 2H), 4.16 (m, 2H), 3.82-3.70 (m, 2H). MS: (M<sup>+</sup>+1) 492, 494;

N-{(R)-(Cyanomethyl-carbamoyl)-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-trifluoromethyl-benzamide (Compound 161); <sup>1</sup>H NMR: (DMSO) 9.24 (d, J=8.2Hz, 1H), 8.88 (t, J=5.4Hz, 1H), 8.07 (d, J=8.2Hz, 2H), 7.90 (d, J=8.4Hz, 2H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.13 (t, J<sub>H,F</sub>=74Hz, 1H), 5.11 (m, 1H), 4.62 (s, 2H), 4.15 (m, 2H), 3.83 (dd, J=3.2Hz, J=14.5Hz, 1H), 3.64 (dd, J=10.0Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 520;

Quinoline-2-carboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 162);  $^{1}$ H NMR: (DMSO) 9.51 (d, J=8.2Hz, 1H), 8.85 (t, J=5.4Hz, 1H), 8.60 (d, J=8.4Hz, 1H), 8.20 (d, J=8.4Hz, 1H), 8.16-8.08 (m, 2H), 7.89 (t, J=7.0Hz, 1H), 7.74 (t, J=7.0Hz, 1H), 7.53-7.44 (m, 2H), 7.32-7.23 (m, 2H), 7.11 (t, J<sub>H,F</sub>=74Hz, 1H), 5.21 (m, 1H), 4.62 (s, 2H), 4.14 (m, 2H), 4.00-3.82 (m, 2H). MS: (M $^{+}$ +1) 503;

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(R)-2-Benzenesulfonylamino-*N*-cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-propionamide (Compound 163); <sup>1</sup>H NMR: (DMSO) 9.02 (t, J=5.4Hz, 1H), 8.57 (d, J=9.2Hz, 1H), 8.77 (m, 2H), 7.65-7.23 (m, 7H), 7.11 (t, J<sub>H,F</sub>=74Hz, 1H), 4.52 (d, J=13.6Hz, 1H), 4.44 (d, J=13.6Hz, 1H), 4.38 (m, 1H), 4.01-3.85 (m, 2H), 3.47 (dd, J=5.9Hz, J=14.5Hz, 1H), 3.22 (dd, J=7.2Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 488;

(R)-*N*-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(naphthalene-2-sulfonylamino)-propionamide (Compound 164); <sup>1</sup>H NMR: (DMSO) 9.05 (t, J=5.4Hz, 1H), 8.67 (d, J=9.0Hz, 1H), 8.43 (s, 1H), 8.14-8.01 (m, 3H), 7.78 (dd, J=2.0Hz, J=8.6Hz, 1H), 7.74-6.63 (m, 2H), 7.46-7.39 (m, 1H), 7.27-7.14 (m, 3H), 7.07 (t, J<sub>H,F</sub>=74Hz, 1H), 4.52-4.37 (m, 3H), 3.86 (m, 2H), 3.49 (dd, J=5.7Hz, J=14.5Hz, 1H), 3.26 (dd, J=7.2Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 538;

(R)-N-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(thiophene-2-sulfonylamino)-propionamide (Compound 165); <sup>1</sup>H NMR: (DMSO) 9.06 (t, J=5.4Hz, 1H), 8.78 (d, J=9.1Hz, 1H), 7.91 (d, J=4.9Hz, 1H), 7.57 (d, J=3Hz, 1H), 7.51-7.40 (m, 2H), 7.32-7.23 (m, 2H), 7.12 (m, 1H), 7.11 (t, J<sub>H,F</sub>=74Hz, 1H), 4.54 (d, J=13.8Hz, 1H), 4.47 (d, J=13.8Hz, 1H), 4.42 (m, 1H), 4.10-3.95 (m, 2H), 3.50 (dd, J=5.9Hz, J=14.5Hz, 1H), 3.24 (dd, J=7.2Hz, J=14.5Hz, 1H). MS: (M<sup>+</sup>+1) 494;

Cyclopentanecarboxylic acid {(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide (Compound 166); <sup>1</sup>H NMR: (DMSO) 8.69 (t, J=5.4Hz, 1H), 8.34 (d, J=8.4Hz, 1H), 7.52-7.44 (m, 2H), 7.33-7.23 (m, 2H), 7.14 (t, J<sub>H,F</sub>=74Hz, 1H), 4.84 (m, 1H), 4.56 (s, 2H), 4.12 (m, 2H), 3.67 (dd, J=3.9Hz, J=14.5Hz, 1H), 3.41 (dd, J=9.2Hz, J=14.5Hz, 1H), 2.62 (m, 1H), 1.76-1.45 (m, 8H). MS: (M<sup>+</sup>+1) 444;

Morpholine-4-carboxylic acid {(R)-1-[(1-cyano-1-thiophen-2-yl-methyl)-

carbamoyl]-2-phenylmethanesulfonyl-ethyl}-amide (Compound 172); 'H-NMR (CdCl3) delta (ppm): 8.17 (m, 1H), 7.40 (m, 5H), 7.35 (t, J=1.0 Hz, 1H), 7.28, 7.26 (t, J=1.0 Hz, 1H), 7.02-7.00 (d, J=3.5 Hz, 1H), 6.17 (d, J=7.9 Hz, 1H), 5.98 (m, 1H), 4.90 (m, 1H), 4.50 (dd, J=8.9, 9.1 Hz, 1H), 4.35 (dd, J=6.2, 5.7 Hz, 1H), 3.65 (m, 5H), 3.20-3.40 (m, 5H); MS M+=476.8 M-=474.8; and

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Morpholine-4-carboxylic acid {(R)-1-[(1-cyano-1-furan-2-yl-methyl)-carbamoyl]-2-phenylmethanesulfonyl-ethyl}-amide (Compound 174) <sup>1</sup>H NMR (DMSO, 300 MHz) 9.9 and 9.36 pair of diastereomers (pair of doublets, J = 3.5 Hz, 1H), 7.37 (m, 5H), 7.08 (m, 1H), 7.36 (t, 3.5 Hz, 1H), 6.16 (d, 7.4 Hz, 1H), 6.11 (m, 1H), 4.72, (m, 1H), 4.49 (d, 5.9 Hz, 2 H), 3.2-3.7 (m, 10 H), 2.26 (s, 3H); MS (M-1) = 472.8.

#### EXAMPLE 11

#### Cathepsin S Assay

Solutions of test compounds in varying concentrations were prepared in 10 μL of dimethyl sulfoxide (DMSO) and then diluted into assay buffer (40 μL, comprising: MES, 50 mM (pH 6.5); EDTA, 2.5 mM; and NaCl, 100 mM). Human cathepsin S (0.158 pMoles in 25 μL of assay buffer) was added to the dilutions. The assay solutions were mixed for 5-10 seconds on a shaker plate, covered and incubated for 30 minutes at ambient temperature. Z-Val-Val-Arg-AMC (9 nMoles in 25 μL of assay buffer) was added to the assay solutions and hydrolysis was followed spectrophotometrically at (λ 460 nm) for 5 minutes. Apparent inhibition constants (K<sub>i</sub>) were calculated from the enzyme progress curves using standard mathematical models.

#### **EXAMPLE 12**

#### Cathepsin B Assay

Solutions of test compounds in varying concentrations were prepared in 10 µL of dimethyl sulfoxide (DMSO) and then diluted into assay buffer (40 µL, comprising: *N*,*N*-bis(2-hydroxyethyl)-2-aminoethanesulfonic acid (BES), 50 mM (pH 6);

polyoxyethylenesorbitan monolaurate, 0.05%; and dithiothreitol (DTT), 2.5 mM). Human cathepsin B (0.025 pMoles in 25  $\mu$ L of assay buffer) was added to the dilutions. The assay solutions were mixed for 5-10 seconds on a shaker plate, covered and incubated for 30 minutes at ambient temperature. Z-FR-AMC (20 nMoles in 25  $\mu$ L of assay buffer) was added to the assay solutions and hydrolysis was followed spectrophotometrically at ( $\lambda$  460 nm) for 5 minutes. Apparent inhibition constants ( $K_i$ ) were calculated from the enzyme progress curves using standard mathematical models.

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#### **EXAMPLE 13**

#### Cathepsin K Assay

Solutions of test compounds in varying concentrations were prepared in 10  $\mu$ L of dimethyl sulfoxide (DMSO) and then diluted into assay buffer (40  $\mu$ L, comprising: MES, 50 mM (pH 5.5); EDTA, 2.5 mM; and DTT, 2.5 mM). Human cathepsin K (0.0906 pMoles in 25  $\mu$ L of assay buffer) was added to the dilutions. The assay solutions were mixed for 5-10 seconds on a shaker plate, covered and incubated for 30 minutes at ambient temperature. Z-Phe-Arg-AMC (4 nMoles in 25  $\mu$ L of assay buffer) was added to the assay solutions and hydrolysis was followed spectrophotometrically at ( $\lambda$  460 nm) for 5 minutes. Apparent inhibition constants ( $K_i$ ) were calculated from the enzyme progress curves using standard mathematical models.

#### **EXAMPLE 14**

# Cathepsin L Assay

Solutions of test compounds in varying concentrations were prepared in 10  $\mu$ L of dimethyl sulfoxide (DMSO) and then diluted into assay buffer (40  $\mu$ L, comprising: MES, 50 mM (pH 5.5); EDTA, 2.5 mM; and DTT, 2.5 mM). Human cathepsin L (0.05 pMoles in 25  $\mu$ L of assay buffer) was added to the dilutions. The assay solutions were mixed for 5-10 seconds on a shaker plate, covered and incubated for 30 minutes at ambient temperature. Z-Phe-Arg-AMC (1 nMoles in 25  $\mu$ L of assay buffer) was added to the assay

solutions and hydrolysis was followed spectrophotometrically at ( $\lambda$  460 nm) for 5 minutes. Apparent inhibition constants ( $K_i$ ) were calculated from the enzyme progress curves using standard mathematical models.

Compounds of the invention were tested according to the above-described assays for protease inhibition and observed to exhibit selective cathepsin S inhibitory activity. For example, the compounds of the invention were found to inhibit cathepsin S protease activity at concentrations that are least 50 fold less than those concentrations required to produce an equiactive inhibition of cathepsin K protease activity. The apparent inhibition constants  $(K_i)$  for compounds of the invention range from about  $10^{-10}$  to about  $10^{-4}$  M.

#### **EXAMPLE 15**

Representative Pharmaceutical Formulations Containing a Compound of

#### 15 Formula I

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## ORAL FORMULATION

Compound of Formula I 10-100 mg
Citric Acid Monohydrate 105 mg
Sodium Hydroxide 18 mg
Flavoring
Water q.s. to 100 mL

#### INTRAVENOUS FORMULATION

25 Compound of Formula I 0.1-10 mg

Dextrose Monohydrate q.s. to make isotonic

Citric Acid Monohydrate 1.05 mg

Sodium Hydroxide 0.18 mg

Water for Injection q.s. to 1.0 mL

# TABLET FORMULATION

|   | Compound of Formula I      | 1%  |
|---|----------------------------|-----|
|   | Microcrystalline Cellulose | 73% |
|   | Stearic Acid               | 25% |
| 5 | Colloidal Silica           | 1%. |

#### WE CLAIM:

# 1. A compound of Formula I:

$$\begin{array}{c} X^2R^3 \\ X^1 \cdot S(O)_2 \\ R^4 \cdot N \cdot N \cdot N \cdot R^2 \cdot R^1 \end{array}$$

in which:

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 $X^1$  and  $X^2$  are both methylene or  $X^1$  is ethylene and  $X^2$  is a bond;

 $R^1$  is hydrogen and  $R^2$  is cyano, hetero( $C_5$ )aryl or ( $C_{1-4}$ )alkyl-substituted hetero( $C_5$ )aryl or both  $R^1$  and  $R^2$  are hydrogen, halo, ( $C_{1-4}$ )alkyl or  $-X^3OR^9$ , wherein  $X^3$  and  $R^9$  are as defined below, or  $R^1$  and  $R^2$  together with the carbon atom to which both  $R^1$  and  $R^2$  are attached form ( $C_{3-8}$ )cycloalkylene or ( $C_{3-8}$ )heterocycloalkylene;

 $R^3$  is  $-CR^5$ = $CHR^6$  or  $-CR^7$ = $NR^8$ , wherein  $R^5$  and  $R^6$  together with the atoms to which  $R^5$  and  $R^6$  are attached form ( $C_{2-6}$ )alkenyl, ( $C_{5-12}$ )cycloalkenyl, hetero( $C_{5-12}$ )cycloalkenyl, ( $C_{6-12}$ )aryl, hetero( $C_{6-12}$ )aryl, ( $C_{9-12}$ )bicycloaryl or hetero( $C_{8-12}$ )bicycloaryl and  $R^7$  and  $R^8$  together with the atoms to which  $R^7$  and  $R^8$  are attached form hetero( $C_{5-12}$ )cycloalkenyl, hetero( $C_{6-12}$ )aryl or hetero( $C_{8-12}$ )bicycloaryl, wherein  $R^3$  optionally is substituted by 1 to 5 radicals independently selected from a group consisting of ( $C_{1-4}$ )alkyl, cyano, halo, halo-substituted ( $C_{1-4}$ )alkyl, nitro,

 $-X^3S(O)_2R^{10}$  and  $-X^3C(O)R^{10}$ , wherein  $X^3$  is a bond or  $(C_{1-2})$ alkylene,  $R^9$  at each occurrence independently is hydrogen,  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl; and

 $-X^{3}NR^{9}R^{9}$ ,  $-X^{3}OR^{9}$ ,  $-X^{3}SR^{9}$ ,  $-X^{3}C(O)NR^{9}R^{9}$ ,  $-X^{3}C(O)OR^{9}$ ,  $-X^{3}S(O)R^{10}$ ,

 $R^4 \text{ is } -C(O)X^4R^{11} \text{ or } -S(O)_2X^4R^{11}, \text{ wherein } X^4 \text{ is a bond, } -O-\text{ or } -NR^{12}-,$  wherein  $R^{12}$  is hydrogen or  $(C_{1-6})$ alkyl, and  $R^{11}$  is (i)  $(C_{1-6})$ alkyl optionally substituted by  $-OR^{13}$ ,  $-SR^{13}$ ,  $-S(O)R^{13}$ ,  $-S(O)_2R^{13}$ ,  $-C(O)R^{13}$ ,  $-C(O)OR^{13}$ ,  $-C(O)NR^{13}R^{14}$ ,  $-NR^{13}R^{14}$ ,  $-NR^{14}C(O)R^{13}$ ,  $-NR^{14}C(O)OR^{13}$ ,  $-NR^{14}C(O)NR^{13}R^{14}$  or  $-NR^{14}C(NR^{14})NR^{13}R^{14}$ , wherein  $R^{13}$  is  $(C_{3-12})$ cycloalkyl $(C_{0-3})$ alkyl,

$$\label{eq:condition} \begin{split} &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl}, \ (C_{6\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl}, \ \text{hetero}(C_{5\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl}, \\ &(C_{9\text{-}12})\text{bicycloaryl}(C_{0\text{-}3})\text{alkyl} \ \text{or} \ \text{hetero}(C_{8\text{-}12})\text{bicycloaryl}(C_{0\text{-}3})\text{alkyl} \ \text{and} \ R^{14} \ \text{at} \ \text{each} \\ &\text{occurrence independently is hydrogen or} \ (C_{1\text{-}6})\text{alkyl}, \ \text{or} \ (\text{ii}) \ (C_{3\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl}, \\ &\text{hetero}(C_{5\text{-}12})\text{cycloalkyl}(C_{0\text{-}3})\text{alkyl}, \ (C_{6\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl}, \ \text{hetero}(C_{5\text{-}12})\text{aryl}(C_{0\text{-}3})\text{alkyl}, \\ \end{split}$$

- $$\begin{split} 5 & \quad (C_{9\cdot12}) bicycloaryl(C_{0\cdot3}) alkyl \ or \ hetero(C_{8\cdot12}) bicycloaryl(C_{0\cdot3}) alkyl \ or \ (iii) \\ & \quad (C_{3\cdot6}) cycloalkyl(C_{0\cdot3}) alkyl, \ hetero(C_{5\cdot6}) cycloalkyl(C_{0\cdot3}) alkyl, \ phenyl(C_{0\cdot3}) alkyl \ or \\ & \quad hetero(C_{5\cdot6}) aryl(C_{0\cdot3}) alkyl \ substituted \ by \ -X^5 OR^{15}, \ -X^5 SR^{15}, \ -X^5 S(O)R^{15}, \\ & \quad -X^5 S(O)_2 R^{15}, \ -X^5 C(O)R^{15}, \ -X^5 C(O)OR^{15}, \ -X^5 C(O)NR^{15}R^{16}, \ -X^5 NR^{16}C(O)R^{15}, \ -X^5 NR^{16}C(O)NR^{15}R^{16} \ or \end{split}$$
- -X<sup>5</sup>NR<sup>16</sup>C(NR<sup>16</sup>)NR<sup>15</sup>R<sup>16</sup>, wherein X<sup>5</sup> is a bond or methylene, R<sup>15</sup> is (C<sub>3-6</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, hetero(C<sub>5-6</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, phenyl(C<sub>0-3</sub>)alkyl or hetero(C<sub>5-6</sub>)aryl(C<sub>0-3</sub>)alkyl and R<sup>16</sup> is hydrogen or (C<sub>1-6</sub>)alkyl; wherein R<sup>4</sup> optionally further contains 1 to 5 substituents which when occurring within an alicyclic or aromatic ring system are radicals independently selected from a group consisting of
- $\begin{array}{lll} 15 & (C_{1\text{-}6}) alkyl, \ (C_{1\text{-}6}) alkylidene, \ cyano, \ halo, \ nitro, \ halo-substituted \ (C_{1\text{-}3}) alkyl, \\ & -X^5NR^{17}R^{17}, \ -X^5NR^{17}C(O)OR^{17}, \ -X^5NR^{17}C(O)NR^{17}R^{17}, \ -X^5NR^{17}C(NR^{17})NR^{17}R^{17}, \\ & -X^5OR^{17}, \ -X^5SR^{17}, \ -X^5C(O)OR^{17}, \ -X^5C(O)NR^{17}R^{17}, \ -X^5S(O)_2NR^{17}R^{17}, \\ & -X^5P(O)(OR^8)OR^{17}, \ -X^5OP(O)(OR^8)OR^{17}, \ -X^5NR^{17}C(O)R^{18}, \ -X^5S(O)_2R^{18} \ \ and \ -X^5C(O)R^{18} \ \ and \ \ when occurring \ \ within \ an \ \ aliphatic \ \ moiety \ \ are \end{array}$
- radicals independently selected from a group consisting of cyano, halo, nitro,  $-NR^{17}R^{17}$ ,  $-NR^{17}C(O)OR^{17}$ ,  $-NR^{17}C(O)NR^{17}R^{17}$ ,  $-NR^{17}C(NR^{17})NR^{17}R^{17}$ ,  $-OR^{17}$ ,  $-SR^{17}$ ,  $-C(O)OR^{17}$ ,  $-C(O)NR^{17}R^{17}$ ,  $-S(O)_2NR^{17}R^{17}$ ,  $-P(O)(OR^{17})OR^{17}$ ,  $-OP(O)(OR^{17})OR^{17}$ ,  $-NR^{17}C(O)R^{18}$ ,  $-S(O)R^{18}$ ,  $-S(O)_2R^{18}$  and  $-C(O)R^{18}$ , wherein  $X^5$  is a bond or  $(C_{1-6})$ alkylene,  $R^{17}$  at each occurrence independently is hydrogen,  $(C_{1-6})$ alkyl or
- halo-substituted (C<sub>1-3</sub>)alkyl and R<sup>18</sup> is (C<sub>1-6</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

The compound of Claim 1 in which R<sup>1</sup> represents hydrogen and R<sup>2</sup> 2. represents hydrogen, hetero( $C_5$ )aryl or ( $C_{1-4}$ )alkyl-substituted hetero( $C_5$ )aryl or  $R^1$  and R<sup>2</sup> together with the carbon atom to which both R<sup>1</sup> and R<sup>2</sup> are attached form  $(C_{3-5})$ cycloalkylene or  $(C_{5-6})$ heterocycloalkylene;  $X^1$  and  $X^2$  are both methylene and  $R^3$ represents  $(C_{2-6})$ alkenyl,  $(C_{6-12})$ aryl or hetero $(C_{5-12})$ aryl, each optionally substituted by 1 5 to 5 radicals selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo, halo-substituted ( $C_{1-4}$ )alkyl, nitro,  $-X^3NR^9R^9$ ,  $-X^3OR^9$ ,  $-X^3SR^9$ ,  $-X^3C(O)NR^9R^9$ ,  $-X^{3}C(O)OR^{9}$ ,  $-X^{3}S(O)R^{10}$ ,  $-X^{3}S(O)_{2}R^{10}$  and  $-X^{3}C(O)R^{10}$ , wherein  $X^{3}$  is a bond or  $(C_{1-2})$ alkylene,  $R^9$  at each occurrence independently is hydrogen,  $(C_{1-3})$ alkyl or halo-substituted (C<sub>1-3</sub>)alkyl and R<sup>10</sup> is (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl; and R<sup>4</sup> 10 is  $-C(O)X^4R^{11}$ , wherein  $X^4$  is a bond, -O- or -NH- and  $R^{11}$  is  $(C_{1.6})$ alkyl, hetero( $C_{5-12}$ )cycloalkyl( $C_{0-3}$ )alkyl, ( $C_{6-10}$ )aryl( $C_{0-3}$ )alkyl or hetero( $C_{5-10}$ )aryl( $C_{0-3}$ )alkyl, wherein any heterocycloalkyl, aryl or heteroaryl group comprising R<sup>4</sup> optionally is substituted in the ring by  $-X^5OR^{17}$ ,  $-X^5NR^{17}C(O)OR^{17}$ ,  $-X^5C(O)OR^{17}$  or  $-X^5C(O)R^{18}$ ; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual 15 isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

3. The compound of Claim 2 in which R³ more preferably represents biphenyl, isooxazolyl, naphthyl, phenyl, pyridyl, thienyl or vinyl, each optionally substituted by 1 to 5 radicals selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo, halo-substituted (C<sub>1-4</sub>)alkyl, nitro, -X³NR<sup>9</sup>R<sup>9</sup>, -X³OR<sup>9</sup>, -X³SR<sup>9</sup>, -X³C(O)NR<sup>9</sup>R<sup>9</sup>, -X³C(O)OR<sup>9</sup>, -X³S(O)R<sup>10</sup>, -X³S(O)<sub>2</sub>R<sup>10</sup> and -X³C(O)R<sup>10</sup>, wherein X³ is a bond or (C<sub>1-2</sub>)alkylene, R<sup>9</sup> at each occurrence independently is hydrogen, (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl and R<sup>10</sup> is (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

4. The compound of Claim 3 in which  $R^3$  is biphenyl-2-yl,

- 2,4-bistrifluoromethylphenyl, 2,5-bistrifluoromethylphenyl, 4-tert-butylphenyl,
- 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 2-bromo-5-fluorophenyl, 3-chloro-
- 2-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 5-chlorothien-2-yl,
- 5 2-chloro-5-trifluoromethyl, 2-cyanophenyl, 3-cyanophenyl, 4-cyanophenyl,
  - 1,5-dichlorophenyl, 2,6-dichlorophenyl, 3,4-dichlorophenyl, 2,3-difluorophenyl,
  - 2,4-difluorophenyl, 3,4-difluorophenyl, 2-difluoromethoxyphenyl,
  - 3-difluoromethoxyphenyl, 4-difluoromethoxyphenyl, 2,5-difluorophenyl,
  - 2,6-difluorophenyl, 3,5-dimethylisooxaxol-4-yl, 3,5-dimethylphenyl, 2-fluoro-
- 10 6-nitrophenyl, 2-fluorophenyl, 4-fluorophenyl, 2-fluoro-3-trifluoromethylphenyl,
  - 2-fluoro-4-trifluoromethylphenyl, 2-fluoro-5-trifluoromethylphenyl, 2-fluoro-
  - 6-trifluoromethylphenyl, 4-fluoro-2-trifluoromethylphenyl, 4-fluoro-
  - 3-trifluoromethylphenyl, 2-iodophenyl, 3-iodophenyl, 4-iodophenyl, 2-methoxyphenyl,
  - 4-methoxyphenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 3-methyl-
- 2-fluorophenyl, naphth-2-yl, 2-nitrophenyl, 3-nitrophenyl, 4-nitrophenyl,
  - 2,3,4,5,6-pentafluorophenyl, phenyl, prop-2-en-1-yl, pyrid-2-yl, pyrid-3-yl, pyrid-4-yl,
  - 2-trifluoromethoxyphenyl, 3-trifluoromethoxyphenyl, 4-trifluoromethoxyphenyl,
  - 3-trifluoromethylphenyl, 4-trifluoromethylphenyl, 2-trifluoromethylsulfanylphenyl,
  - 3-trifluoromethylsulfanylphenyl, 4-trifluoromethylsulfanyl-phenyl,
- 20 2,3,4-trifluorophenyl, 2,3,5-trifluorophenyl, 2,4,6-trifluorophenyl, 2,4,5-trifluorophenyl
  - or 2,3,6-trifluorophenyl; and R<sup>4</sup> is 3-acetylbenzoyl, allyloxycarbonyl,
  - 2-aminopyrid-3-ylcarbonyl, 6-aminopyrid-3-ylcarbonyl, benzo[1,3]dioxol-5-ylcarbonyl,
  - benzoyl, 4-benzoylbenzoylcarbonyl, benzo[1,3]dioxol-3-ylcarbonyl,
  - benzofur-2-ylcarbonyl, biphenyl-4-ylcarbonyl, 4-bromobenzoyl, 3-bromothien-2-yl,
- 25 tert-butoxycarbonyl, 3-tert-butoxycarbonylaminomethylbenzoyl,
  - 4-tert-butoxycarbonylpiperazin-1-ylcarbonyl, 3-chlorobenzoyl, 4-chlorobenzoyl,
  - 3-chlorothienylcarbonyl, cyclopentylcarbonyl, 3,4-difluorobenzoyl,
  - 3,4-dimethoxybenzoyl, dimethylcarbamoyl, 4-ethoxycarbonylpiperazin-1-ylcarbonyl,
  - 4-fluorobenzoyl, 3-fluoro-4-methoxybenzoyl, fur-2-ylcarbonyl, fur-3-ylcarbonyl,
- 30 4-fur-2-ylcarbonylpiperazin-1-ylcarbonyl, 3-hydroxybenzoyl, 4-hydroxybenzoyl,
  - 4-hydroxypyrid-3-yl, 6-hydroxypyrid-3-yl, 1*H*-indol-4-ylcarbonyl, isopropylcarbamoyl,

isobutyloxycarbonyl, isopropyloxycarbonyl, 3-methoxybenzoyl, 4-methoxybenzoyl, 3-methylbenzoyl, 5-methylthienylcarbonyl, 4-methylvaleryl, morpholin-4-ylcarbonyl, naphth-2-ylcarbonyl, naphth-2-ylsulfonyl, 3-phenoxybenzoyl, 3-phenylacryloyl, phenylsulfonyl, pyrazin-2-ylcarbonyl, 3-pyrid-3-ylacryl, pyrid-2-ylcarbonyl, pyrid-3-ylcarbonyl, quinol-2-ylcarbonyl, quinol-3-ylcarbonyl, thien-2-ylcarbonyl, thien-2-ylsulfonyl, 4-trifluoromethoxybenzoyl or 4-trifluoromethylbenzoyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

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5. The compound of Claim 3 in which  $X^1$ ,  $X^2$  and  $R^3$  along with the sulfonyl moiety to which  $X^1$  and  $X^2$  are attached together represent a group having the following formula:

S(O)<sub>2</sub> (R<sup>22</sup>)<sub>n</sub>

in which n is 0, 1, 2, 4 or 5 and R<sup>22</sup> at each occurrence independently is selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo, halo-substituted (C<sub>1-4</sub>)alkyl, nitro,

-X<sup>3</sup>NR<sup>9</sup>R<sup>9</sup>, -X<sup>3</sup>OR<sup>9</sup>, -X<sup>3</sup>SR<sup>9</sup>, -X<sup>3</sup>C(O)NR<sup>9</sup>R<sup>9</sup>, -X<sup>3</sup>C(O)OR<sup>9</sup>, -X<sup>3</sup>S(O)R<sup>10</sup>,

-X<sup>3</sup>S(O)<sub>2</sub>R<sup>10</sup> and -X<sup>3</sup>C(O)R<sup>10</sup>, wherein X<sup>3</sup> is a bond or (C<sub>1-2</sub>)alkylene, R<sup>9</sup> at each occurrence independently is hydrogen, (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl and R<sup>10</sup> is (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl; and R<sup>4</sup> is benzoyl, morpholin-4-ylcarbonyl, thien-2-yl, thien-3-yl, indol-4-yl and pyridin-4-yl, respectively, optionally substituted in the ring by 1 to 2 substituents selected from fluoro and methyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such

compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

- 6. The compound of Claim 5 in which n is 0, 1 or 2 and R<sup>22</sup> at each occurrence independently is selected from a group consisting of (C<sub>1-4</sub>)alkyl, cyano, halo, halo-substituted (C<sub>1-4</sub>)alkyl, nitro, -OR<sup>9</sup>, -SR<sup>9</sup> and -C(O)OR<sup>9</sup>, wherein R<sup>9</sup> at each occurrence independently is hydrogen, (C<sub>1-3</sub>)alkyl or halo-substituted (C<sub>1-3</sub>)alkyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.
  - 7. The compound of Claim 6 in which R<sup>22</sup> at each occurrence independently is selected from a group consisting of (C<sub>1-4</sub>)alkyl, bromo, carboxy, chloro, cyano, difluoromethoxy, fluoro, iodo, methoxy, nitro, trifluoromethoxy, trifluoromethyl and trifluorosulfanyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

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- 8. The compound of Claim 7 in which R<sup>22</sup> at the first occurrence is attached at the ring carbon ortho or meta to the 1-position of the phenyl moiety; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.
- 9. The compound of Claim 8 selected from a group consisting of:
   30 N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-nicotinamide;

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N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-isonicotinamide;
             Pyridine-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-
      methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
 5
             Pyrazine-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-
      methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-6-hydroxy-nicotinamide;
             2-Amino-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
10
      phenylmethanesulfonyl]-ethyl}-nicotinamide;
             6-Amino-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-nicotinamide;
             3-Hydroxy-pyridine-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-
      (1,1-difluoro-methoxy)-phenylmethanesulfonyll-ethyl}-amide;
15
             Morpholine-4-carboxylic acid-{(R)-1-(4-cyano-tetrahydro-pyran-4-
      ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             Morpholine-4-carboxylic acid-{(R)-1-(4-cyano-1-methyl-piperidin-4-
      ylcarbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             (R)-N -Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-
20
      (3, 3-dimethyl-ureido)-propionamide;
             {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-
      sulfonyl]-ethyl}-carbamic acid allyl ester;
             {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-
      sulfonyl]-ethyl}-carbamic acid isopropyl ester;
25
             {(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethane-
      sulfonyl]-ethyl}-carbamic acid isobutyl ester;
             N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethane-sulfonyl]-ethyl}-3,4-difluoro-benzamide;
             N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
30
      phenylmethane-sulfonyl]-ethyl}-3-methyl-benzamide;
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Thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-

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difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             4-Bromo-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-benzamide;
             N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
 5
      phenylmethanesulfonyl]-ethyl}-4-methoxy-benzamide;
             N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-4-trifluoromethoxy-benzamide;
             Naphthalene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-
      difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
10
             (E)-N-\{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-3-phenyl-acrylamide;
             5-Methyl-thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-
      (1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             Biphenyl-4-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-
15
      difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             1H-Indole-5-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-
      difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
             Benzo[1,3]dioxole-5-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-
      (1,1-difluoro-methoxy)-phenylmethanesulfonyl}-ethyl}-amide;
20
             Benzo[b]thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-
      (1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
            N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-3-phenoxy-benzamide;
             Quinoline-3-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-
25
     difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;
            N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
      phenylmethanesulfonyl]-ethyl}-3-(1-phenyl-methanoyl)-benzamide;
            4-Chloro-N-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
     phenylmethanesulfonyl]-ethyl}-benzamide;
30
            N-{(R)-1-(Cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-
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phenylmethanesulfonyl]-ethyl}-3-fluoro-4-methoxy-benzamide;

 $3-Bromo-thiophene-2-carboxylic\ acid-\{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl\}-amide;$ 

 $3-Chloro-benzo[b] thiophene-2-carboxylic acid-\{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl\}-amide;$ 

3-Chloro-thiophene-2-carboxylic acid-{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-amide;

N-{(R)-(Cyanomethyl-carbamoyl)-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl}-trifluoromethyl-benzamide;

(R)-*N*-Cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-(naphthalene-2-sulfonylamino)-propionamide;

 $\label{lem:cyclopentanecarboxylic acid-} Cyclopentanecarboxylic acid-\{(R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl\}-amide;$ 

N-[1R-cyanomethylcarbamoyl-2-(3-

trifluoromethoxy benzyl sulfonyl) ethyl] benzamide;

N-[1R-cyanomethylcarbamoyl-2-(2-

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difluoromethoxybenzylsulfonyl)ethyl]benzamide;

N-[1R-cyanomethylcarbamoyl-2-(2-

trifluoromethoxybenzylsulfonyl)ethyl]benzamide;

N-(1R-cyanomethylcarbamoyl-2-(3-

20 difluoromethoxybenzylsulfonyl)ethyl]benzamide;

N-[1R-cyanomethylcarbamoyl-2-(2-

difluoromethoxybenzylsulfonyl)ethyl]morpholine-4-carboxamide;

N-[1R-(1-cyanocyclopropylcarbamoyl)-2-(2-

difluoromethoxybenzylsulfonyl)ethyl]-morpholine-4-carboxamide; and

N-[1R-cyanomethylcarbamoyl)-2-(3-iodobenzylsulfonyl)ethyl]benzamide; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

10. The compound of Claim 9 selected from a group consisting of:

N-[1R-cyanomethylcarbamoyl-2-(2-difluoromethoxybenzylsulfonyl)-ethyl]benzamide;

N-[1R-cyanomethylcarbamoyl-2-(2-trifluoromethoxybenzylsulfonyl)-ethyl]benzamide;

- *N*-[1R-cyanomethylcarbamoyl-2-(2-difluoromethoxybenzylsulfonyl)-ethyl]morpholine-4-carboxamide;
- *N*-[1R-(1-cyanocyclopropylcarbamoyl)-2-(2-difluoromethoxybenzylsulfonyl)-ethyl]morpholine-4-carboxamide; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.
- 11. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 in combination with a pharmaceutically acceptable excipient.
  - 12. A method for treating a disease in an animal in which inhibition cathepsin S can prevent, inhibit or ameliorate the pathology and/or symptomatology of the disease, which method comprises administering to the animal a therapeutically effective amount of compound of Claim 1 or a *N*-oxide derivative or individual isomer or mixture of isomers thereof; or a pharmaceutically acceptable salt or solvate of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

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13 The use of a compound of Formula I:

$$\begin{array}{c} X^2R^3 \\ X^1 \xrightarrow{S(O)_2} \\ R^4 \xrightarrow{N} & H \\ O & R^2 \\ \end{array}$$

in which:

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 $X^1$  and  $X^2$  are both methylene or  $X^1$  is ethylene and  $X^2$  is a bond;

 $R^1$  is hydrogen and  $R^2$  is cyano, hetero( $C_5$ )aryl or ( $C_{1-4}$ )alkyl-substituted hetero( $C_5$ )aryl or both  $R^1$  and  $R^2$  are hydrogen, halo, ( $C_{1-4}$ )alkyl or  $-X^3OR^9$ , wherein  $X^3$  and  $R^9$  are as defined below, or  $R^1$  and  $R^2$  together with the carbon atom to which both  $R^1$  and  $R^2$  are attached form ( $C_{3-8}$ )cycloalkylene or ( $C_{3-8}$ )heterocycloalkylene;

 $R^3$  is  $-CR^5 = CHR^6$  or  $-CR^7 = NR^8$ , wherein  $R^5$  and  $R^6$  together with the atoms to which  $R^5$  and  $R^6$  are attached form  $(C_{2-6})$ alkenyl,  $(C_{5-12})$ cycloalkenyl,

hetero( $C_{5-12}$ )cycloalkenyl, ( $C_{6-12}$ )aryl, hetero( $C_{6-12}$ )aryl, ( $C_{9-12}$ )bicycloaryl or hetero( $C_{8-12}$ )bicycloaryl and  $R^7$  and  $R^8$  together with the atoms to which  $R^7$  and  $R^8$  are attached form hetero( $C_{5-12}$ )cycloalkenyl, hetero( $C_{6-12}$ )aryl or hetero( $C_{8-12}$ )bicycloaryl, wherein  $R^3$  optionally is substituted by 1 to 5 radicals independently selected from a group consisting of ( $C_{1-4}$ )alkyl, cyano, halo, halo-substituted ( $C_{1-4}$ )alkyl, nitro,

 $-X^3NR^9R^9$ ,  $-X^3OR^9$ ,  $-X^3SR^9$ ,  $-X^3C(O)NR^9R^9$ ,  $-X^3C(O)OR^9$ ,  $-X^3S(O)R^{10}$ ,  $-X^3S(O)_2R^{10}$  and  $-X^3C(O)R^{10}$ , wherein  $X^3$  is a bond or  $(C_{1-2})$ alkylene,  $R^9$  at each occurrence independently is hydrogen,  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl and  $R^{10}$  is  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl; and

 $R^4 \text{ is } -C(O)X^4R^{11} \text{ or } -S(O)_2X^4R^{11}, \text{ wherein } X^4 \text{ is a bond, } -O- \text{ or } -NR^{12}-,$   $20 \text{ wherein } R^{12} \text{ is hydrogen or } (C_{1-6})\text{alkyl, and } R^{11} \text{ is (i) } (C_{1-6})\text{alkyl optionally substituted}$   $by -OR^{13}, -SR^{13}, -S(O)R^{13}, -S(O)_2R^{13}, -C(O)R^{13}, -C(O)OR^{13}, -C(O)NR^{13}R^{14},$   $-NR^{13}R^{14}, -NR^{14}C(O)R^{13}, -NR^{14}C(O)OR^{13}, -NR^{14}C(O)NR^{13}R^{14} \text{ or }$   $-NR^{14}C(NR^{14})NR^{13}R^{14}, \text{ wherein } R^{13} \text{ is } (C_{3-12})\text{cycloalkyl}(C_{0-3})\text{alkyl,}$   $hetero(C_{5-12})\text{cycloalkyl}(C_{0-3})\text{alkyl, } (C_{6-12})\text{aryl}(C_{0-3})\text{alkyl, hetero}(C_{5-12})\text{aryl}(C_{0-3})\text{alkyl,}$   $(C_{9-12})\text{bicycloaryl}(C_{0-3})\text{alkyl or hetero}(C_{8-12})\text{bicycloaryl}(C_{0-3})\text{alkyl and } R^{14} \text{ at each occurrence independently is hydrogen or } (C_{1-6})\text{alkyl, or (ii) } (C_{3-12})\text{cycloalkyl}(C_{0-3})\text{alkyl,}$ 

hetero( $C_{5-12}$ )cycloalkyl( $C_{0-3}$ )alkyl, ( $C_{6-12}$ )aryl( $C_{0-3}$ )alkyl, hetero( $C_{5-12}$ )aryl( $C_{0-3}$ )alkyl,

 $(C_{9-12})$ bicycloaryl $(C_{0-3})$ alkyl or hetero $(C_{8-12})$ bicycloaryl $(C_{0-3})$ alkyl or (iii)  $(C_{3-6})$ cycloalkyl $(C_{0-3})$ alkyl, hetero $(C_{5-6})$ cycloalkyl $(C_{0-3})$ alkyl, phenyl $(C_{0-3})$ alkyl or hetero( $C_{5.6}$ )arvl( $C_{0.3}$ )alkyl substituted by  $-X^5OR^{15}$ ,  $-X^5SR^{15}$ ,  $-X^5S(O)R^{15}$ ,  $-X^{5}S(O)_{2}R^{15}$ ,  $-X^{5}C(O)R^{15}$ ,  $-X^{5}C(O)OR^{15}$ ,  $-X^{5}C(O)NR^{15}R^{16}$ ,  $-X^{5}NR^{15}R^{16}$ ,  $-X^{5}NR^{16}C(O)R^{15}$ ,  $-X^{5}NR^{16}C(O)OR^{15}$ ,  $-X^{5}NR^{16}C(O)NR^{15}R^{16}$  or 5 -X<sup>5</sup>NR<sup>16</sup>C(NR<sup>16</sup>)NR<sup>15</sup>R<sup>16</sup>, wherein X<sup>5</sup> is a bond or methylene, R<sup>15</sup> is  $(C_{3-6})$ cycloalkyl $(C_{0-3})$ alkyl, hetero $(C_{5-6})$ cycloalkyl $(C_{0-3})$ alkyl, phenyl $(C_{0-3})$ alkyl or hetero( $C_{5-6}$ )aryl( $C_{0-3}$ )alkyl and  $R^{16}$  is hydrogen or ( $C_{1-6}$ )alkyl; wherein  $R^4$  optionally further contains 1 to 5 substituents which when occurring within an alicyclic or aromatic ring system are radicals independently selected from a group consisting of 10 (C<sub>1-6</sub>)alkyl, (C<sub>1-6</sub>)alkylidene, cyano, halo, nitro, halo-substituted (C<sub>1-3</sub>)alkyl,  $-X^{5}NR^{17}R^{17}$ ,  $-X^{5}NR^{17}C(O)OR^{17}$ ,  $-X^{5}NR^{17}C(O)NR^{17}R^{17}$ ,  $-X^{5}NR^{17}C(NR^{17})NR^{17}R^{17}$ .  $-X^{5}OR^{17}$ ,  $-X^{5}SR^{17}$ ,  $-X^{5}C(O)OR^{17}$ ,  $-X^{5}C(O)NR^{17}R^{17}$ ,  $-X^{5}S(O)_{2}NR^{17}R^{17}$ .  $-X^{5}P(O)(OR^{8})OR^{17}, -X^{5}OP(O)(OR^{8})OR^{17}, -X^{5}NR^{17}C(O)R^{18}, -X^{5}S(O)R^{18},$ -X<sup>5</sup>S(O)<sub>2</sub>R<sup>18</sup> and -X<sup>5</sup>C(O)R<sup>18</sup> and when occurring within an aliphatic moiety are 15 radicals independently selected from a group consisting of cyano, halo, nitro, -NR<sup>17</sup>R<sup>17</sup>,  $-NR^{17}C(O)OR^{17}$ ,  $-NR^{17}C(O)NR^{17}R^{17}$ ,  $-NR^{17}C(NR^{17})NR^{17}R^{17}$ ,  $-OR^{17}$ ,  $-SR^{17}$ ,  $-C(O)OR^{17}$ ,  $-C(O)NR^{17}R^{17}$ ,  $-S(O)_2NR^{17}R^{17}$ ,  $-P(O)(OR^{17})OR^{17}$ ,  $-OP(O)(OR^{17})OR^{17}$ .  $-NR^{17}C(O)R^{18}$ ,  $-S(O)R^{18}$ ,  $-S(O)_2R^{18}$  and  $-C(O)R^{18}$ , wherein  $X^5$  is a bond or  $(C_{1-6})$ alkylene,  $R^{17}$  at each occurrence independently is hydrogen,  $(C_{1-6})$ alkyl or 20 halo-substituted ( $C_{1-3}$ )alkyl and  $R^{18}$  is ( $C_{1-6}$ )alkyl or halo-substituted ( $C_{1-3}$ )alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, 25 individual isomers and mixtures of isomers thereof; in the manufacture of a medicament for treating a disease in an animal in which cathepsin S activity contributes to the pathology and/or symptomatology of the disease.

#### 14. A process for preparing a compound of Formula I:

$$\begin{array}{c|c}
X^2R^3 \\
\downarrow & \\
X^1 & S(O)_2 \\
R^4 & \\
N & \\
O & R^2 \\
I
\end{array}$$

in which:

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 $X^1$  and  $X^2$  are both methylene or  $X^1$  is ethylene and  $X^2$  is a bond;

 $R^1$  is hydrogen and  $R^2$  is cyano, hetero( $C_5$ )aryl or ( $C_{1-4}$ )alkyl-substituted hetero( $C_5$ )aryl or both  $R^1$  and  $R^2$  are hydrogen, halo, ( $C_{1-4}$ )alkyl or  $-X^3OR^9$ , wherein  $X^3$  and  $R^9$  are as defined below, or  $R^1$  and  $R^2$  together with the carbon atom to which both  $R^1$  and  $R^2$  are attached form ( $C_{3-8}$ )cycloalkylene or ( $C_{3-8}$ )heterocycloalkylene;

 $R^3$  is  $-CR^5 = CHR^6$  or  $-CR^7 = NR^8$ , wherein  $R^5$  and  $R^6$  together with the atoms to which  $R^5$  and  $R^6$  are attached form ( $C_{2-6}$ )alkenyl, ( $C_{5-12}$ )cycloalkenyl,

hetero( $C_{5-12}$ )cycloalkenyl, ( $C_{6-12}$ )aryl, hetero( $C_{6-12}$ )aryl, ( $C_{9-12}$ )bicycloaryl or hetero( $C_{8-12}$ )bicycloaryl and  $R^7$  and  $R^8$  together with the atoms to which  $R^7$  and  $R^8$  are attached form hetero( $C_{5-12}$ )cycloalkenyl, hetero( $C_{6-12}$ )aryl or hetero( $C_{8-12}$ )bicycloaryl, wherein  $R^3$  optionally is substituted by 1 to 5 radicals independently selected from a group consisting of ( $C_{1-4}$ )alkyl, cyano, halo, halo-substituted ( $C_{1-4}$ )alkyl, nitro,

 $-X^3NR^9R^9$ ,  $-X^3OR^9$ ,  $-X^3SR^9$ ,  $-X^3C(O)NR^9R^9$ ,  $-X^3C(O)OR^9$ ,  $-X^3S(O)R^{10}$ ,  $-X^3S(O)_2R^{10}$  and  $-X^3C(O)R^{10}$ , wherein  $X^3$  is a bond or  $(C_{1-2})$ alkylene,  $R^9$  at each occurrence independently is hydrogen,  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl and  $R^{10}$  is  $(C_{1-3})$ alkyl or halo-substituted  $(C_{1-3})$ alkyl; and

R<sup>4</sup> is -C(O)X<sup>4</sup>R<sup>11</sup> or -S(O)<sub>2</sub>X<sup>4</sup>R<sup>11</sup>, wherein X<sup>4</sup> is a bond, -O- or -NR<sup>12</sup>-,
wherein R<sup>12</sup> is hydrogen or (C<sub>1-6</sub>)alkyl, and R<sup>11</sup> is (i) (C<sub>1-6</sub>)alkyl optionally substituted
by -OR<sup>13</sup>, -SR<sup>13</sup>, -S(O)R<sup>13</sup>, -S(O)<sub>2</sub>R<sup>13</sup>, -C(O)R<sup>13</sup>, -C(O)OR<sup>13</sup>, -C(O)NR<sup>13</sup>R<sup>14</sup>,
-NR<sup>13</sup>R<sup>14</sup>, -NR<sup>14</sup>C(O)R<sup>13</sup>, -NR<sup>14</sup>C(O)OR<sup>13</sup>, -NR<sup>14</sup>C(O)NR<sup>13</sup>R<sup>14</sup> or
-NR<sup>14</sup>C(NR<sup>14</sup>)NR<sup>13</sup>R<sup>14</sup>, wherein R<sup>13</sup> is (C<sub>3-12</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl,
hetero(C<sub>5-12</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, (C<sub>6-12</sub>)aryl(C<sub>0-3</sub>)alkyl, hetero(C<sub>5-12</sub>)aryl(C<sub>0-3</sub>)alkyl,

(C<sub>9-12</sub>)bicycloaryl(C<sub>0-3</sub>)alkyl or hetero(C<sub>8-12</sub>)bicycloaryl(C<sub>0-3</sub>)alkyl and R<sup>14</sup> at each
occurrence independently is hydrogen or (C<sub>1-6</sub>)alkyl, or (ii) (C<sub>3-12</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl,
hetero(C<sub>5-12</sub>)cycloalkyl(C<sub>0-3</sub>)alkyl, (C<sub>6-12</sub>)aryl(C<sub>0-3</sub>)alkyl, hetero(C<sub>5-12</sub>)aryl(C<sub>0-3</sub>)alkyl,

 $(C_{9-12})$ bicycloaryl $(C_{0-3})$ alkyl or hetero $(C_{8-12})$ bicycloaryl $(C_{0-3})$ alkyl or (iii)  $(C_{3-6})$ cycloalkyl $(C_{0-3})$ alkyl, hetero $(C_{5-6})$ cycloalkyl $(C_{0-3})$ alkyl, phenyl $(C_{0-3})$ alkyl or hetero( $C_{5.6}$ )arvl( $C_{0.3}$ )alkyl substituted by  $-X^5OR^{15}$ ,  $-X^5SR^{15}$ ,  $-X^5S(O)R^{15}$ .  $-X^{5}S(O)_{2}R^{15}$ ,  $-X^{5}C(O)R^{15}$ ,  $-X^{5}C(O)OR^{15}$ ,  $-X^{5}C(O)NR^{15}R^{16}$ ,  $-X^{5}NR^{15}R^{16}$ .  $-X^{5}NR^{16}C(O)R^{15}$ ,  $-X^{5}NR^{16}C(O)OR^{15}$ ,  $-X^{5}NR^{16}C(O)NR^{15}R^{16}$  or 5 -X<sup>5</sup>NR<sup>16</sup>C(NR<sup>16</sup>)NR<sup>15</sup>R<sup>16</sup>, wherein X<sup>5</sup> is a bond or methylene, R<sup>15</sup> is  $(C_{3.6})$ cycloalkyl $(C_{0.3})$ alkyl, hetero $(C_{5.6})$ cycloalkyl $(C_{0.3})$ alkyl, phenyl $(C_{0.3})$ alkyl or hetero(C<sub>5-6</sub>)aryl(C<sub>0-3</sub>)alkyl and R<sup>16</sup> is hydrogen or (C<sub>1-6</sub>)alkyl; wherein R<sup>4</sup> optionally further contains 1 to 5 substituents which when occurring within an alicyclic or aromatic ring system are radicals independently selected from a group consisting of 10 (C<sub>1.6</sub>)alkyl, (C<sub>1.6</sub>)alkylidene, cyano, halo, nitro, halo-substituted (C<sub>1.3</sub>)alkyl,  $-X^{5}NR^{17}R^{17}$ ,  $-X^{5}NR^{17}C(O)OR^{17}$ ,  $-X^{5}NR^{17}C(O)NR^{17}R^{17}$ ,  $-X^{5}NR^{17}C(NR^{17})NR^{17}R^{17}$ .  $-X^{5}OR^{17}$ ,  $-X^{5}SR^{17}$ ,  $-X^{5}C(O)OR^{17}$ ,  $-X^{5}C(O)NR^{17}R^{17}$ ,  $-X^{5}S(O)_{2}NR^{17}R^{17}$ ,  $-X^{5}P(O)(OR^{8})OR^{17}, -X^{5}OP(O)(OR^{8})OR^{17}, -X^{5}NR^{17}C(O)R^{18}, -X^{5}S(O)R^{18},$ -X<sup>5</sup>S(O)<sub>2</sub>R<sup>18</sup> and -X<sup>5</sup>C(O)R<sup>18</sup> and when occurring within an aliphatic moiety are 15 radicals independently selected from a group consisting of cyano, halo, nitro, -NR<sup>17</sup>R<sup>17</sup>,  $-NR^{17}C(O)OR^{17}$ ,  $-NR^{17}C(O)NR^{17}R^{17}$ ,  $-NR^{17}C(NR^{17})NR^{17}R^{17}$ ,  $-OR^{17}$ ,  $-SR^{17}$ ,  $-C(O)OR^{17}$ ,  $-C(O)NR^{17}R^{17}$ ,  $-S(O)_2NR^{17}R^{17}$ ,  $-P(O)(OR^{17})OR^{17}$ ,  $-OP(O)(OR^{17})OR^{17}$  $-NR^{17}C(O)R^{18}$ ,  $-S(O)R^{18}$ ,  $-S(O)_2R^{18}$  and  $-C(O)R^{18}$ , wherein  $X^5$  is a bond or  $(C_{1-6})$ alkylene,  $R^{17}$  at each occurrence independently is hydrogen,  $(C_{1-6})$ alkyl or 20 halo-substituted ( $C_{1-3}$ )alkyl and  $R^{18}$  is ( $C_{1-6}$ )alkyl or halo-substituted ( $C_{1-3}$ )alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, 25 individual isomers and mixtures of isomers thereof; which processes comprises: (A) reacting a compound of Formula 2:

with a compound of the formula  $NH_2CR^1R^2CN$ , in which  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined in the Summary of the Invention for Formula I; or

(B) reacting a compound of Formula 3:

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$$X^2R^3$$
 $X^1$ 
 $S(O)_n$ 
 $H$ 
 $N$ 
 $N$ 
 $R^2$ 
 $R^1$ 

with a compound of the formula  $R^4L$ , in which n is 0 or 2, L is a leaving group and each  $X^1, X^2, R^1, R^2, R^3$  and  $R^4$  are as defined in the Summary of the Invention for Formula I, and then oxidizing when n is 0; or

(C) reacting a compound of Formula 4:

with a compound of formula  $NHR^{13}R^{14}$  or  $NHR^{20}R^{21}$  to provide a compound of Formula I in which  $R^4$  is  $-C(O)NR^{13}R^{14}$  or  $-C(O)NR^{20}R^{21}$ , respectively, wherein n is 0 or 2,  $R^{20}$  and  $R^{21}$  together with the nitrogen atom to which  $R^{20}$  and  $R^{21}$  are attached form hetero( $C_{5-12}$ )cycloalkyl and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^{13}$  and  $R^{14}$  are as defined in the Summary of the Invention for Formula I, and then oxidizing when n is 0; or

(D) reacting a compound of Formula 5:

with a compound of  $R^3X^2L$  in which L is a leaving group and each  $X^1$ ,  $X^2$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined in the Summary of the Invention for Formula I; and

(E) optionally converting a compound of Formula I into a pharmaceutically acceptable salt;

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- (F) optionally converting a salt form of a compound of Formula I to non-salt form;
- (G) optionally converting an unoxidized form of a compound of Formula I into a pharmaceutically acceptable *N*-oxide;
  - (H) optionally converting an *N*-oxide form of a compound of Formula I its unoxidized form;
  - (I) optionally resolving an individual isomer of a compound of Formula I from a mixture of isomers;
- 15 (J) optionally converting a non-derivatized compound of Formula I into a pharmaceutically prodrug derivative; and
  - (K) optionally converting a prodrug derivative of a compound of Formula I to its non-derivatized form.

Interr pal Application No PCT/US 00/25415

A. CLASSIFICATION OF SUBJECT MATTER CO7D333/40 IPC 7 C07D295/20 C07D333/70 C07D213/82 C07D213/81 C07D215/48 C07D209/08 CO7D317/68 C07D215/54 C07C317/28 A61K31/5375 A61K31/5377 A61K31/455 A61K31/47 A61K31/4965 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7D - 070 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category 5 PICKEN P P ET AL: "Inhibition of bovine Α 1-3,5,11 - 13cathepsin B by amino acid-derived nitriles" BIOCHEMICAL SOCIETY TRANSACTIONS, COLCHESTER, ESSEX, GB, vol. 18, no. 2, April 1990 (1990-04), page 316 XP002108054 ISSN: 0300-5127 left-hand column, paragraph "Experimental", compound "benzyloxycarbonyl-L-(S-Benzyl)-cysteinylaminoacetonitrile" table 1 Patent family members are listed in annex. Further documents are listed in the continuation of box C. X Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the A document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 28 December 2000 05/01/2001 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Hass, C Fax: (+31-70) 340-3016

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| C. DOCUM   | ENTS CONSIDERED TO BE RELEVANT   |  |   |
| Category °   | Citation of document, with indication, where appropriate, of the r   | elevant passages   | Relevant to claim No.                         |
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|  | Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016   | Hass, C  |   |

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